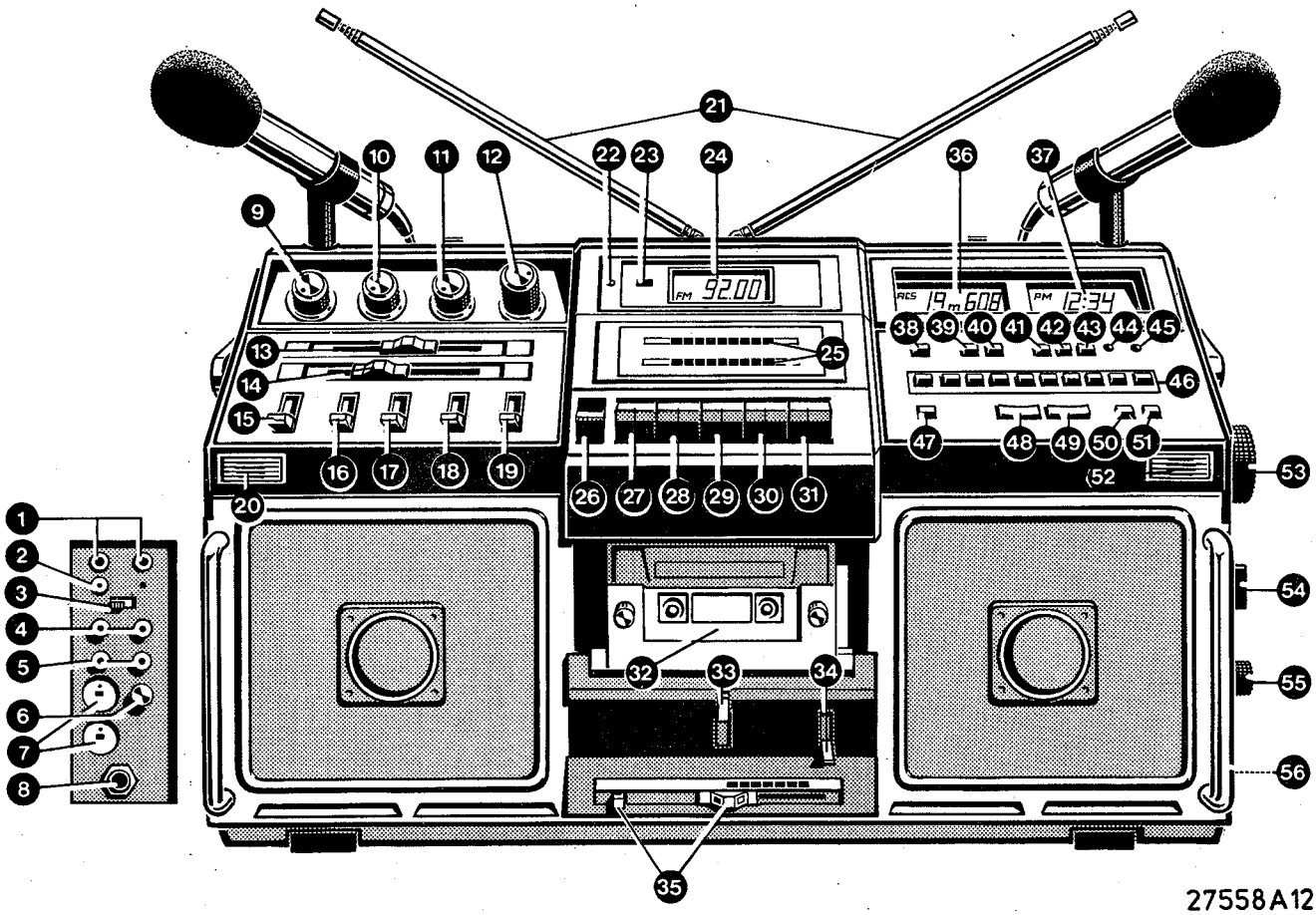
Service
Service
Service

Service Manual



27558A12

Documentation Technique Service Dokumentation Documentazione di Servizio Huolte-Ohje Manual de Servicio Manual de Serviço

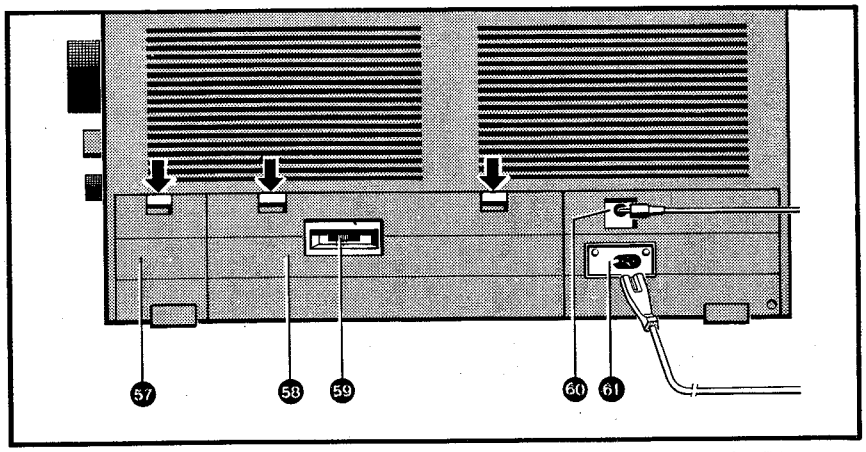
"Pour votre sécurité, ces documents doivent être utilisés par des spécialistes agréés, seuls habilités à réparer votre appareil en panne".

Subject to modification
4822 725 14576
Printed in The Netherlands

PHILIPS

CONNECTIONS AND CONTROLS

1	L (BU-1), R (BU-2)			
2	remote BU3			
3	SK-U, „line in"/MD-phono			
4	line-in/MD-phono; L (BU-4), R (BU-5)			
5	line-out L (BU-6), R (BU-7)			
6	ground			
7	ext. L.s.p. L (BU-8), R (BU-9) 4 - 8 Ω			
8	phones (BU-10) 4 Ω÷2 kΩ			
9	balance	1616		
10	bass	1609-1610		
11	treble	1607-1608		
12	rec man-level	1601-1602		
13	mono-stereo-spatial	1604		
14	volume	1611-1612		
15	SK-Q Rec-level/peak-level/tuning			
16	SK-P mic's	on/off		
17	SK-N Dolby	on/off		
18	SK-M rec-auto/manual			
19	SK-L mode	line/radio		
20	(L)	1011		
22	dial light	SK-W		
23	FM stereo LED „6001"			
24	display FM-SW-MW-LW (= Freq. reading)			
25	LED indicatoren L (power output) R (tuning/ power output)			
26	search manual	SK-D		
27	stop/eject	SK-K		
28	play	SK-C	SK-K	(A.C.S.)
29	FF	SK-E	SK-K	(A.C.S)
30	rew	SK-F	SK-K	(A.C.S.)
31	rec	SK-B	SK-K	
33	SK-H	mode	play-mute-pause	
34	SK-J	tape select normal-CrO2-metal		
35	1015	post fading		
36	A.C.S./tape counter-display			
37	clock-display			
38	reset	counter		
39	A.C.S.	on/off		
40	memo	on/off		
41	timer	on		
42	timer	off		
43	AM/PM			
44	12/24			
45	time			
46	program setting			
47	enter			
48	power on			
49	power off			
50	slumber			
51	set/start			
52	(R) 1012			
53	tuning - 1100			
54	FM-SW-MW-LW	SK-A	SK-V	
55	fine-tun.	1014		
56	ext. aerial	300 Ω	BU-13	
57	2 x R6 batt.	(3.0 V)		
58	8 x R20 batt.	(12 V)		
59	R.I.F.	SK-G		
60	ext. power	9-14 V	BU-11	
61	mains inlet	BU-12		



27557 A12

SPECIFICATIONS

⊣⊢	3 V (2 x R6)	
	12 V (8 x R20)	
	110/127 V	240 V 50/60 Hz
	220 V	(See wiring diagram Fig. 3 and Fig. A)

Aud freq. part

Power band width 100 Hz - 10 kHz
(—3 dB)
S/N ratio ⩾ 40 dB

Input sensitivities

(For 50 mW accross 4 Ω - load	MD-PU	0.15 mV ± 2 dB/100 kΩ
	Line-in	10 mV ± 2 dB/100 kΩ
	Radio	4.2 mV ± 2 dB/40 kΩ
	Micro	0.1 mV ± 2 dB/1 kΩ

Output (4 Ω load)

127 V/220 V	—2 x 4.5 W (—1 dB)	d ⩽ 10%
110 V	—2 x 3.7 W (—1 dB)	d ⩽ 10%
12 V ⎓	—2 x 4 W (—1 dB)	d ⩽ 10%

Line (output) 650 mV ± 2 dB/22 kΩ
(SBC126 level; 0 dB - 315 Hz)

LW 150 - 260 kHz	IF AM 468 kHz ± 1 kHz
MW 520 - 1605 kHz	IF FM 10.75 MHz ± 50 kHz
SW 5.95 - 15.45 MHz	
FM 87.5 - 108 MHz	

Recorder part:

Tape speed	4.76 cm/sec ± 2%
Wow and flutter	⩽ 0.3%
Bias freq.	60 kHz ± 20%
S/N ratio	⩾ 50 dB (CrO2 without dolby)

Freq. response - (Rec/playback)

Pos. manual/Dolby off and line out 0 dB (= 650 mV - 26 dB)

Normal	125 Hz - 10 kHz (within 6 dB)
CrO2	125 Hz - 12.5 kHz (within 6 dB)

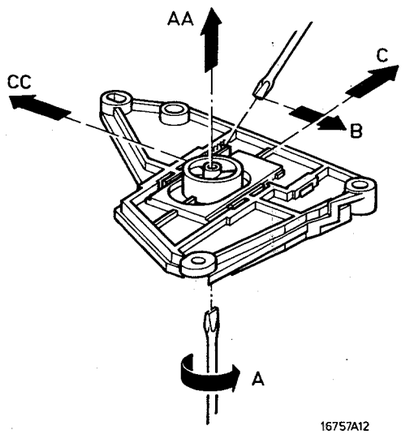


Fig. 1

CS 79 541

(GB)

Changing the voltage

For change over to another mains voltage, see Fig. A.
Besides, the type plate must be adapted.

(F)

Changement de la tension

Pour ce qui est de la commutation de la tension secteur, consulter Fig. A.
La plaquette de type devra alors aussi être modifée.

(NL)

Spanningsomschakeling

Voor omschakeling naar een andere netspanning zie Fig. A.
Tevens **moet** het typeplaatje aangepast worden.

(D)

Spannungsumschaltung

Zum Umschalten auf eine andere Netzspannung siehe Fig. A.
Auch **muss** die Typenplatte angepasst werden.

(I)

Cambiamento della tensione

Per quando concerno la commutazione delle tensione rete, vedere Fig. A.
La piastrella di tipo **dovra** anche essere adattata.

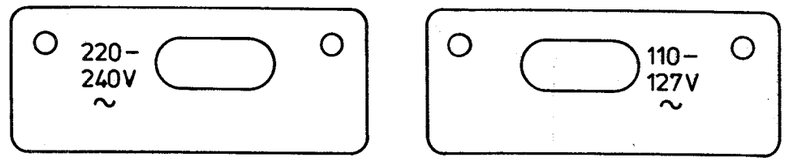


Fig. A

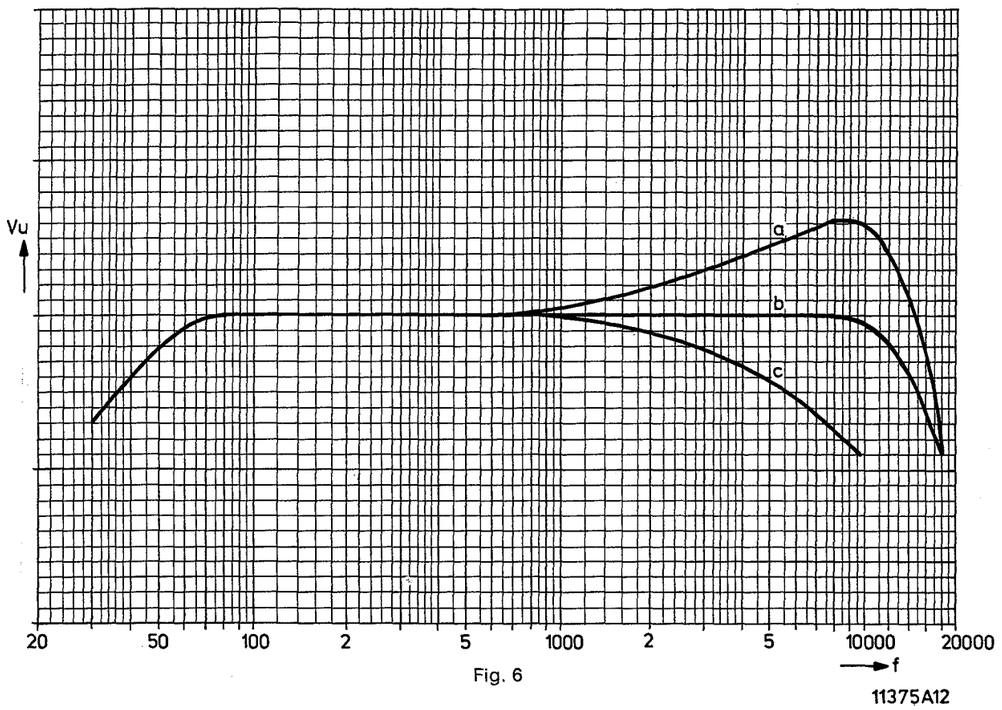


Fig. 6

11375A12

Measure-ments and adjustments	Cassette	Recorder in position	Apply signal to	Messure on	Read on	Adjust with	Adjust to
Play back speed	SBC126Cr 3150 Hz	PLAY	—	BU6 (BU7)	Wow-and-Flutter meter	R-motor See M1 Fig. 4	*a 4.76 cm/s ± 2%
Azimuth R/P head	SBC126Cr 10 kHz	PLAY SK-J-Cr	—	BU6 (BU7)	mV-meter	Screw 71 *f (See Fig. ..)	Max. output
Playback sensitivity + Indicators	SBC126Cr 315 Hz-0 dB	SK-J-Cr PLAY SK-N off	—	MP1 (MP2)	mV-meter	R3317 (R3318)	650 mV
	Arbitrary	PLAY	315 Hz via 22 k on	MP1 (MP2)	mV-meter	LF-generator	580 mV
			MP3 (MP4)		Indicators	R3349 (R3350)	0 dB
Playback frequency response	SBC126Cr 125 Hz;250 Hz; 6.3 kHz; 12.5 kHz	SK-J-Cr PLAY SK-N off	—	BU6 (BU7)	mV-meter	—	See Frequency response 125-12.5 kHz (± 6 dB)
Target value BIAS	SBC126Cr Side 2 *c	Play, SK-N off REC SK-J-Cr	—	MP3 (MP4)	mV-meter	R3404 (R3404)	9 mV
Recording sensitivity	SBC126Cr Side 2 *c	SK-J-Cr REC + PLAY R1601-1602 on max. SK-N off	315 Hz, via BU4 (BU5)	MP1 (MP2)	mV-meter	LF-generator	580 mV
				*b			
				MP3 (MP4)	mV-meter	R3363 (R3364)	1.6 mV
			*e				
		PLAY	—	MP1 (MP2)	mV-meter		580 mV *d
BIAS	SBC126Cr Side 2 *c	REC + PLAY SK-J-Cr SK-N off	—	MP1 (MP2)	mV-meter	R3403 (R3404)	9 mV
			315 Hz, to BU4 (BU5)	BU6 (BU7)	mV-meter	LF-generator	29 mV
			BU4 (BU5)	Record a number of frequencies; *h 125 Hz; 250 Hz 6.3 kHz, 12.5 kHz			
	Rewind recording made	PLAY	—	BU6 (BU7)	mV-meter	R3403 (R3404)	See Freq. resp. 125 Hz-12.5 kHz (± 6 dB) *g
19/38 kHz Pilot-tone suppression	Arbitrary	REC + PLAY SK-N off	315 Hz, to BU4 (BU5)	MP1 (MP2)	mV-meter	LF-Generator	775 mV
			19 kHz, to BU4 (BU5)	MP1 (MP2)	mV-meter	5271 5272	⩽ 25 mV
			38 kHz, to BU4 (BU5)	MP1 (MP2)	mV-meter	—	⩽ 43.5 mV
A.L.C. LED BAR indicators	Arbitrary	REC + PLAY SK-M auto	≈ 600 mV 1000 Hz BU4 (BU5)		Indicators	3347	LED BAR Ind. reading L= R

Fig. 7

GB

Safety regulations require that the set be restored to its original condition and that parts which are identical with those specified, be used.

NL

Veiligheidsbepalingen vereisen, dat het apparaat bij reparatie in zijn oorspronkelijke toestand wordt teruggebracht en dat onderdelen, identiek aan de gespecificeerde, worden toegepast.

F

Les normes de sécurité exigent que l'appareil soit remis à l'état d'origine et que soient utilisées les pièces de rechange identiques à celles spécifiées.

D

Bei jeder Reparatur sind die geltenden Sicherheitsvorschriften zu beachten. Der Originalzustand des Geräts darf nicht verändert werden; für Reparaturen sind Original-Ersatzteile zu verwenden.

I

Le norme di sicurezza esigono che l'apparecchio venga rimesso nelle condizioni originali e che siano utilizzati i pezzi di ricambio identici a quelli specificati.

S

Säkerhetsbestämmelserna kräver att varje reparation skall utföras korrekt med hänsyn till ursprunglig placering av komponenter, ledningar etc. och med användning av föreskrivna reservdelar.

DK

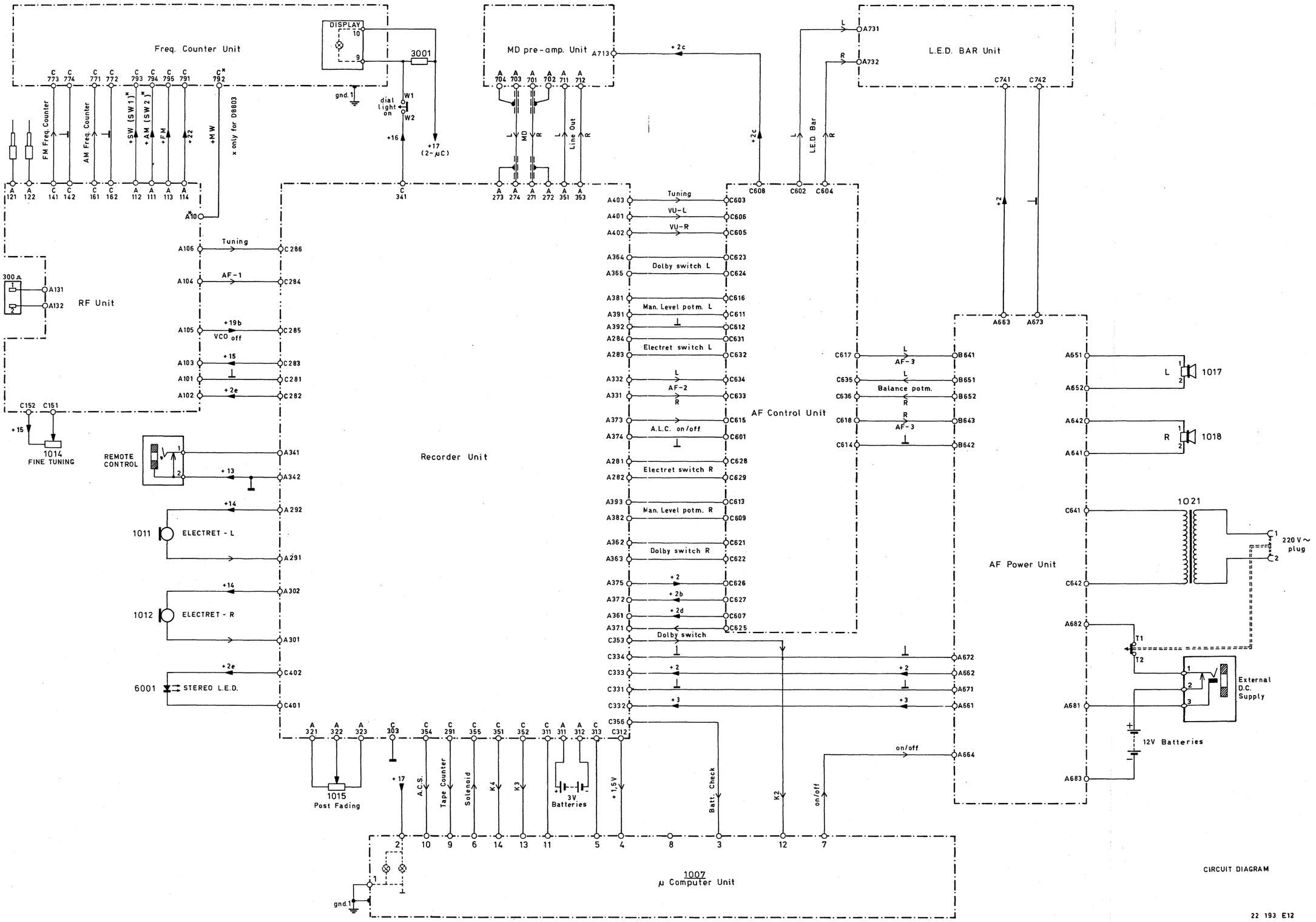
Myndighedernes sikkerheds- og radiostøjbestemmelser kræver, at enhver reparation skal udføres korrekt m.h.t. overholdelse af originalplacering og montering af komponenter, ledningsbundter, etc, og ved anvendelse af de foreskrevne reservedele.

N

Sikkerhetsbestemmelser kreves at apparatet blir gjennopprettet til original utførelse og at deler som er identiske med de som er spesifisert, blir benyttet.

SF

Korjatessa laitetta on turvallisuussyistä ehdottomasti eneteltävä oikein ja käytettävä tehtaan määräämiä alkuperäisvaraosia.

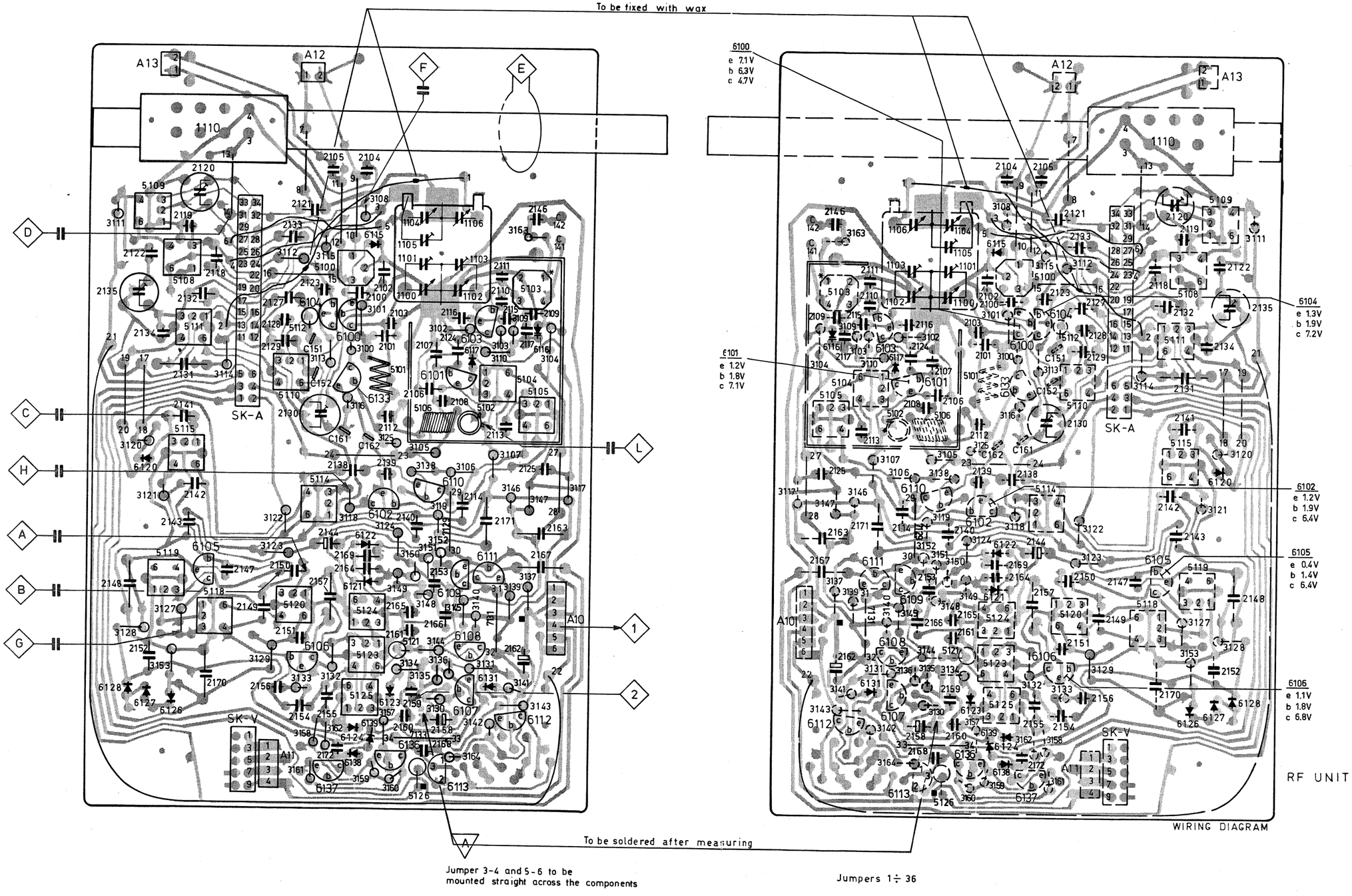


CIRCUIT DIAGRAM

22 193 E12

CS 79 542

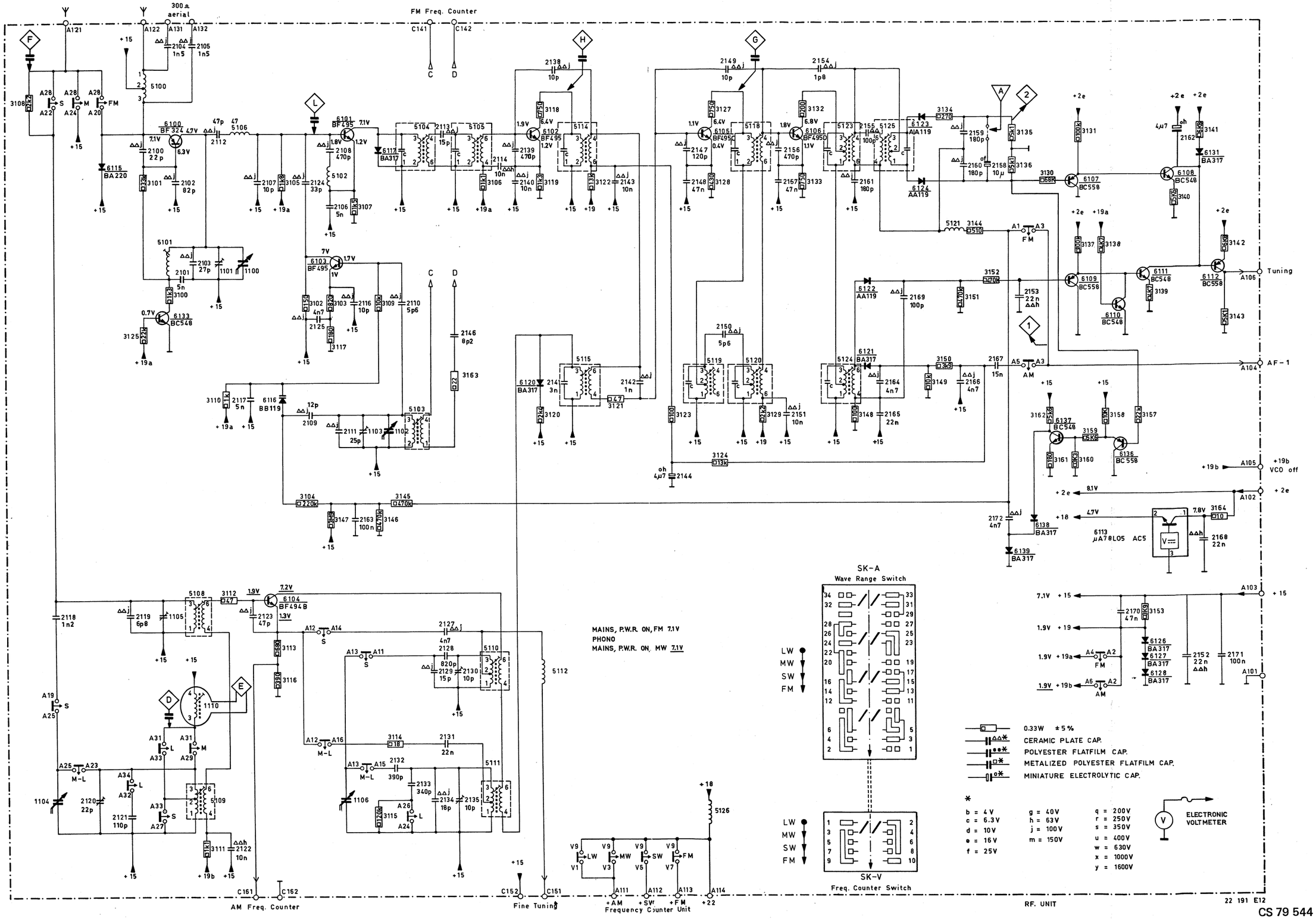
MISC	5109. 5108. 5111. 1110	5110. 5112. 6104. 5100. 6100. 6115. 1100÷1106. 6117. 5102÷5106. 5117. 6116	6116. 5117. 5102÷5106. 6117. 1100÷1106. 6116. 6100. 5100. 6104. 5112. 5110 1110. 5111. 5108. 5109
MISC	6120. 5119. 5115. 6105	5120. 5114. 6133. 6121÷6124. 5101. 6101÷6103. 6107÷6113	6107÷6113. 6101÷6103. 5101. 6121÷6124. 6133. 5114. 5120 6105. 5115. 5119. 6120
MISC	6128. 6127. 6126. 5118. 5126	6106. 6136÷6139. 5123÷5125 6130. 6131	6131. 6130 5123÷5125. 6136÷6139. 6106 5126. 5118. 6126. 6127. 6128
C	2135. 2122. 2118÷2120. 2132. 2127÷2129. 2133. 2121. 2123. 2100÷2106. 2112. 2107÷2111. 2124. 2113÷2117		2113÷2117. 2124. 2107÷2111. 2112. 2100÷2106. 2123. 2121. 2133. 2127÷2129. 2132. 2118÷2120. 2122. 2135
C	**2152** 2134. 2131. 2141÷2143	2130. 2149÷2151. 2144. 2169. 2164. 2138÷2140 2171. 2125. 2163. 2167	2167. 2163. 2125. 2171 2138÷2140. 2164. 2169. 2144. 2149÷2151. 2130 2141÷2143. 2131. 2134 **2152**
C	2148 2170. 2147	2153÷2157. 2172. 2165. 2166. 2158÷2161. 2168. 2162	2162. 2168. 2158÷2161. 2166. 2165. 2172. 2153÷2157 2147. 2170 2148
R	3111 3114	3112. 3113. 3115. 3116. 3100. 3101. 3108. 3105÷3107. 3102. 3103. 3109. 3110. 3104	3104. 3110. 3109. 3103. 3102. 3105÷3107. 3108. 3101. 3100. 3116. 3115. 3113. 3112 3114 3111
R	3120. 3121 3122. 3123	3118. 3125. 3124. 3148. 3151. 3138. 3119. 3139. 3137. 3117	3117. 3137. 3139. 3119. 3138. 3151. 3148. 3124. 3125. 3118 3123. 3122 3121. 3120
R	3128. 3153. 3127	3129. 3133. 3132. 3157÷3162. 3134÷3136. 3140÷3147 **3164** 3130	3130 **3164** 3140÷3147. 3134÷3136. 3157÷3162. 3132. 3133. 3129 3127. 3153. 3128



22 018 C12

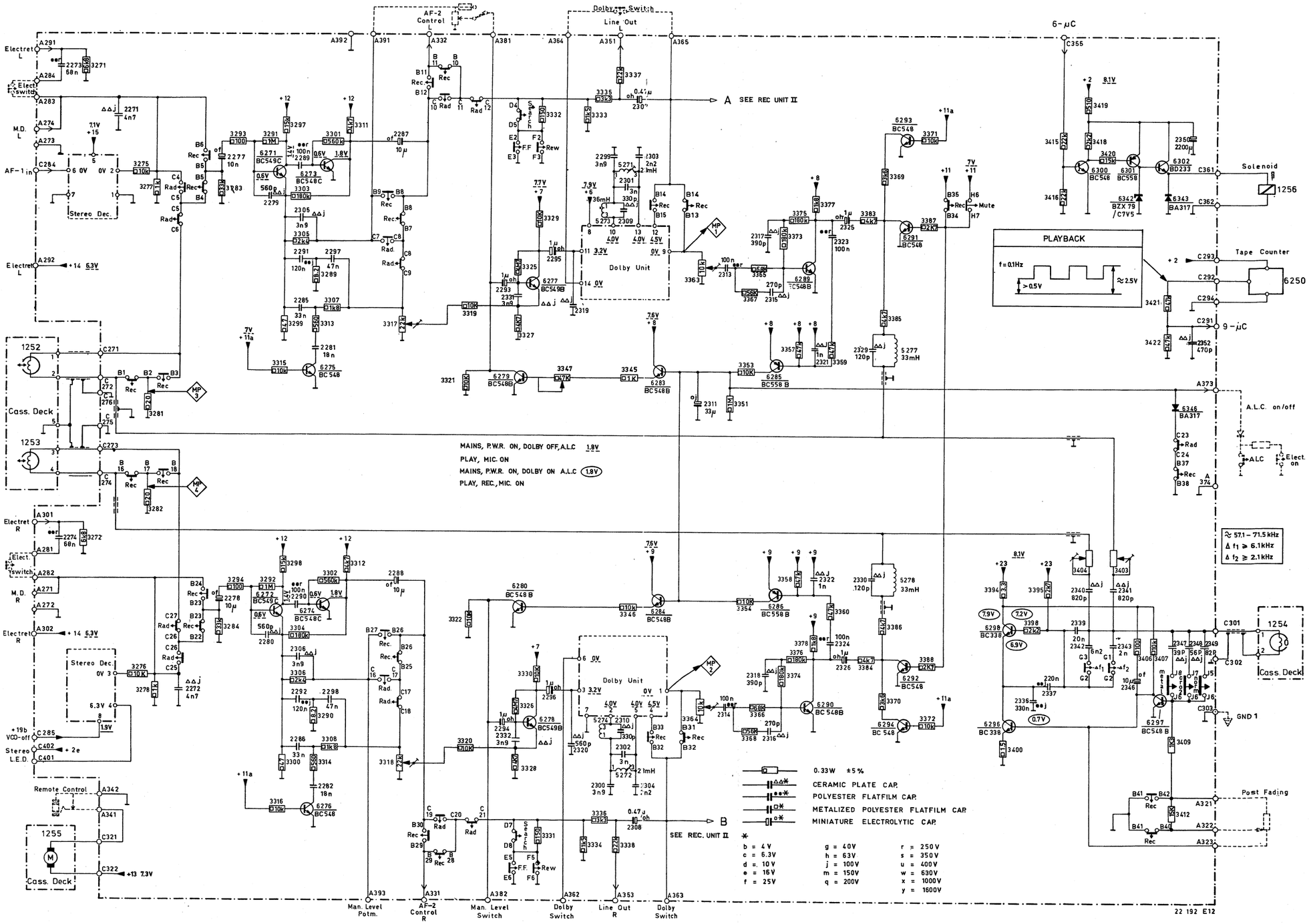
CS 79 543

MISC	6115	5100	6100.5101.6133.5108.5109.1110.5106.6116.6104.5102.6101.6103 6117	5103÷5105	5110.5111.6102.6120.5112.5114.5115	5126	6105.5118÷5120	6106	5123÷5125.6121÷6124	5121	6136÷6139	6107 ÷ 6112	6126÷6128.6113.6131
C	1104.2118.2120.2119.2121.1105	2100÷2105.2112.2122.2123.1100.1101.2117.2106÷2111.2124.2125.2163.2146.1103.1102.2113÷2116.2132÷2135.2127÷2131.2138÷2144					2147÷2151	2154÷2157.2161	2164÷2166.2169	2158÷2160.2167.2172		2170.2168 2152	2168 2171 2152
R	3108	3125.3101.3100	3110÷3113.3116	3102÷3105	3145÷3147.3117.3115.3114.3107.3109.3106.3163	3118÷3122	3123 3124	3127÷3129	3133 3132	3148 3134	3149÷3151.3144.3152.3135.3136.3130.3157÷3162.3131	3137÷3143	3153 3164



CS 79 544

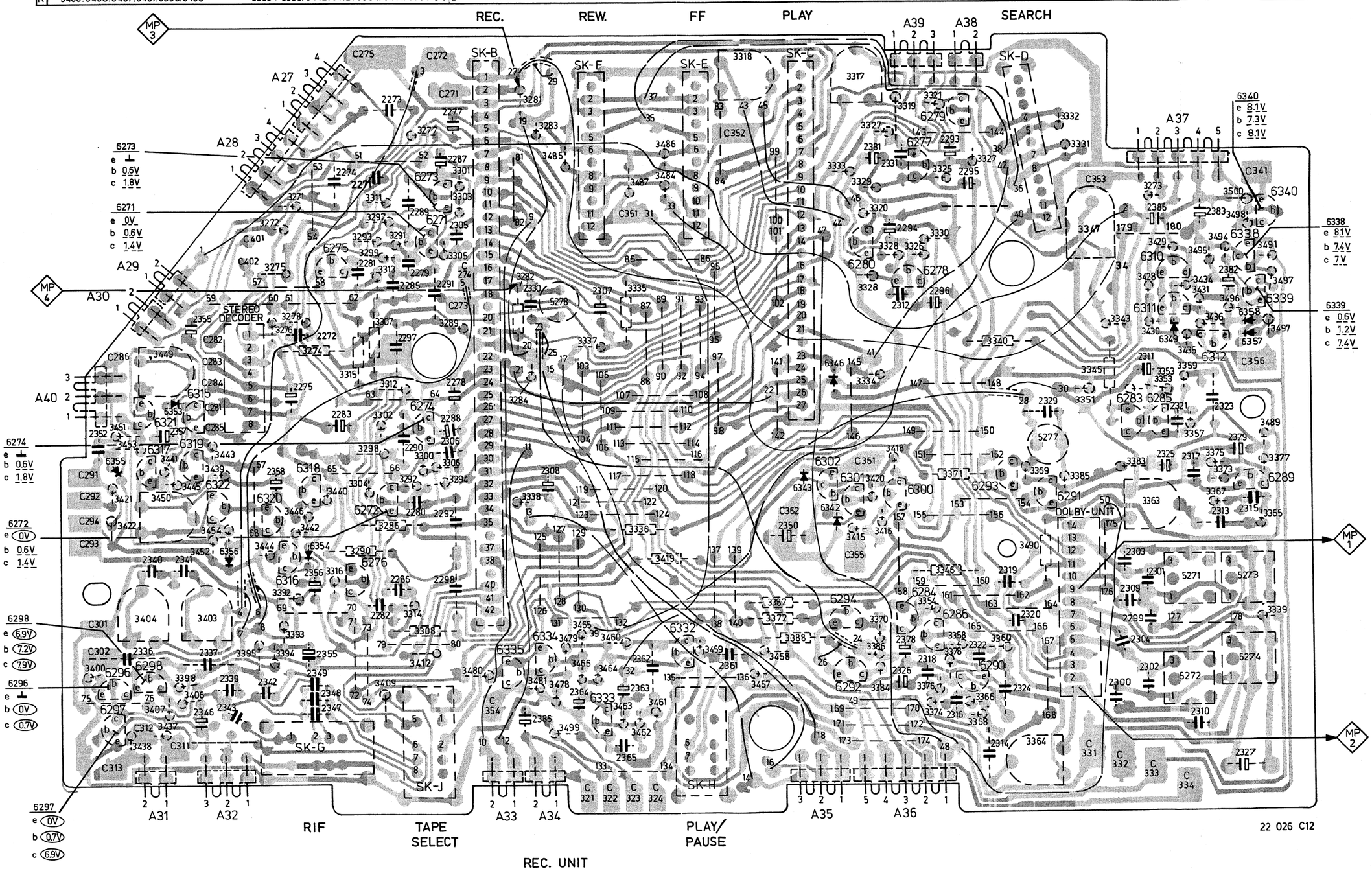
MISC	6271 ÷ 6275				6277 ÷ 6280			5271 ÷ 5274	6284	6283	6286	6285	6290	6289	5278	5277	6291 ÷ 6294	6296	6298	6300	6301	6342	6297	6345	6343	6302
C	2274.2273	2271	2272	2277 ÷ 2280	2285 ÷ 2292.2306.2305.2282.2281.2298.2297			2293÷2296.2331.2332.2320.2319.2299.2300÷2304.2307÷2310		2311.2313 ÷2318		2321÷2326			2330.2329					2336.2337	2339÷2343		2346	2347.2350.2352			
R	3272.3271.3275÷3278.3282.3281			3284.3283.3291÷3294.3315.3316.3297÷3308.3290.3289.3311÷3314		3317÷3322	3325÷3332	3347	3333÷3338.3343÷3346		3364.3363.3351.3353.3354.3365÷3368.3373÷3378.3357÷3360.3383÷3388.3369÷3372							3394.3400.3398.3395.3415.3416.3418÷3420.3403.3404.3406.3407.3421.3422.3409÷3412									



RECORDER UNIT I

CS 79 545

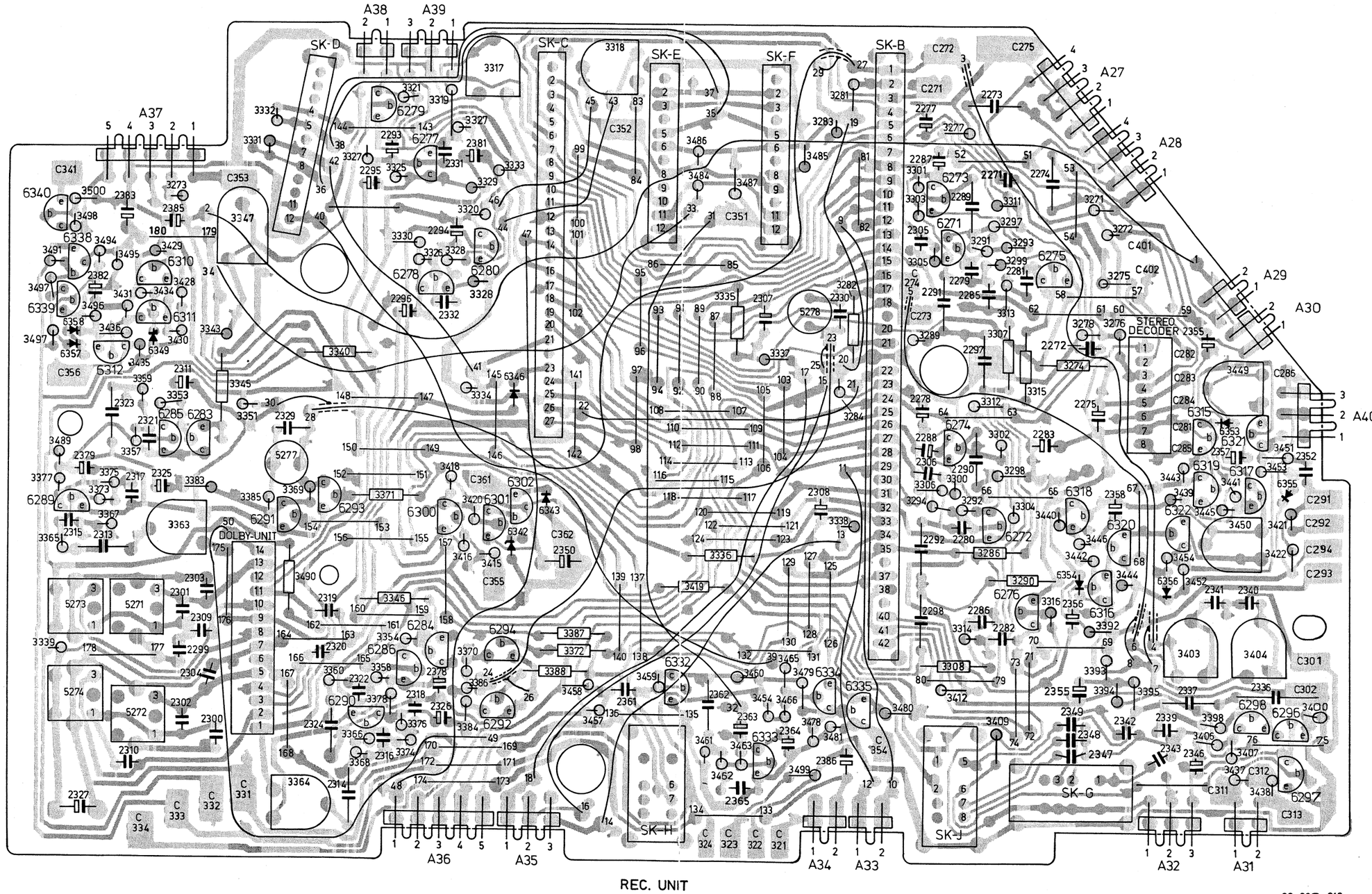
MISC	6355. 6321 . 6353 . 6315. 6322 6318. 6275 6271 6273 5278 6346. 6300 ÷ 6302. 6280. 6777. 6278. 6279 6310 ÷ 6312. 6349. 6357 ÷ 6358. 6338 ÷ 6340
MISC	6297. 6296. 6298. 6317. 6319 6356 6320. 6316. 6354. 6276. 6272 6274 6335 . 6334 6333 6332 6343. 6342. 6294 . 6292 6284 6286 6290 6293 5277 6291 6283. 6285 5271 ÷ 5274 6289
C	2355 2347 ÷ 2349 2274 . 2281. 2273 . 2285 . 2277 ÷ 2280. 2305 2330 2307 2381. 2294 . 2331. 2293. 2295 2311. 2385. 2383 . 2323. 2382
C	2352 2340. 2357. 2341 2358. 2275. 2356. 2283. 2271. 2297. 2287 ÷ 2292. 2306 2308 2350 2332 . 2296 2320. 2319 2329 2325. 2321. 2317. 2313. 2379. 2315
C	2336 2346. 2337. 2339. 2343 . 2342 2335. 2272. 2282. 2286 2298 2386 2364. 2365. 2363. 2362 2361 2326. 2378 . 2318. 2316. 2322. 2314. 2324 2309. 2300 ÷ 2304. 2299. 2310 2327
R	3272. 3271 3311 ÷ 3316 3277. 3305. 3303. 3301. 3281 . 3283. 3485 3487. 3484. 3486 3318 3333. 3317. 3325 ÷ 3330. 3319 ÷ 3321 3332. 3331. 3343. 3273. 3428 ÷ 3431. 3494 ÷ 3498. 3491
R	3451. 3453. 3449. 3441. 3445. 3439. 3443. 3278. 3276 ÷ 3274. 3297 ÷ 3299. 3290 ÷ 3294. 3289 3282. 3284 3337. 3335 3420. 3334. 3418 3371 3340. 3344 3345. 3351. 3353. 3359. 3434 ÷ 3436 3489
R	3422. 3421. 3404. 3450. 3403. 3452. 3454 . 3444. 3446. 3440. 3307. 3302. 3286. 3300. 3306 3338 3336. 3419 3372. 3387 3415. 3416 3354. 3346. 3358. 3366 3369. 3490. 3385. 3383. 3363. 3357. 3367. 3375. 3373. 3377
R	3400. 3438. 3437. 3407. 3398. 3406 3393 ÷ 3395. 3442. 3412. 3304. 3409 3308. 3412. 3480. 3481. 3478. 3499. 3479. 3460 ÷ 3466 3459. 3457. 3458. 3388 . 3386. 3384. 3370. 3374. 3376. 3378. 3368. 3360. 3364 3500 3365. 3339



REC. UNIT

CS 79 546

MISC	6338÷6340. 6357÷635 . 6349. 6310÷6312 6279 . 6278. 6777. 6280. 6300 ÷ 6302. 6346 5278 6273 6271 6275. 6318 6322. 6315. 6353. 6321. 6355
MISC	6289 5271÷5274 6285. 6283 6291 5277 6293 6290 6286 6284 6292. 6294. 6342. 6343 6332 6333 6334. 6335 6274 6272. 6276. 6354. 6316. 6320 6356 6319. 6317. 6298. 6296. 6297
C	2382. 2323. 2383. 2385. 2311 2295. 2293. 2331. 2294. 2381 2307 2330 2305. 2277÷2280. 2285 . 2273. 2281. 2274 **2347÷2349** 2355
C	2315. 2379. 2313. 2317. 2321. 2325 2329 2319. 2320 2296 . 2332 2350 2308 2306. 2287÷ 2292. 2297 **2271** 2283. 2356. 2275. 2358 2341. 2357. 2340 2352
C	2327 2310. 2299. 2300÷2304. 2309 2324. 2314. 2322. 2316. 2318. 2378. 2326 2361 2362. 2363. 2365. 2364 2386 2298 2286. 2282 **2272** 2335 2342. 2343. 2339. 2337. 2346 2336
R	3491. 3494÷3498. 3428÷3431. 3273. 3343. 3331. 3332 3319÷3321 . 3325÷3330. 3317. 3333 3318 3486. 3484. 3487 3485. 3283. 3281. 3301. 3303. 3305. 3277 3311÷**3316** . 3271. 3272
R	3489 3434÷3436. 3359. 3353 3345 **3351** 3340 3371 3418. 3334. 3420 3335. 3337 3284. 3282. **3412** . 3289. 3290÷3294. 3297÷3299. 3274. **3276. 3278**. 3443. 3439. 3445. 3441. 3449. 3453. 3451
R	3377. 3373. 3375. 3367. 3357. 3363. 3383. 3385. 3490. 3369 3366. 3358. 3346. 3354 3416. 3415 3387. 3372 3419. 3336 3306. 3300 . 3286. 3302. 3307. 3440. 3446. 3444. 3454. 3452. 3403. 3450. 3404. 3421. 3422
R	3339 . 3365 3500 3364 . 3360. 3368. 3378. 3376. 3374. 3370. 3384. 3386 . 3388. 3458. 3457. 3459 3460 ÷ 3466. 3479. 3499. 3478. 3481. 3480 3308. **3409**. 3304. 3412. 3442. 3392÷ 3395 3406. 3398. 3407. 3437. 3438. 3400

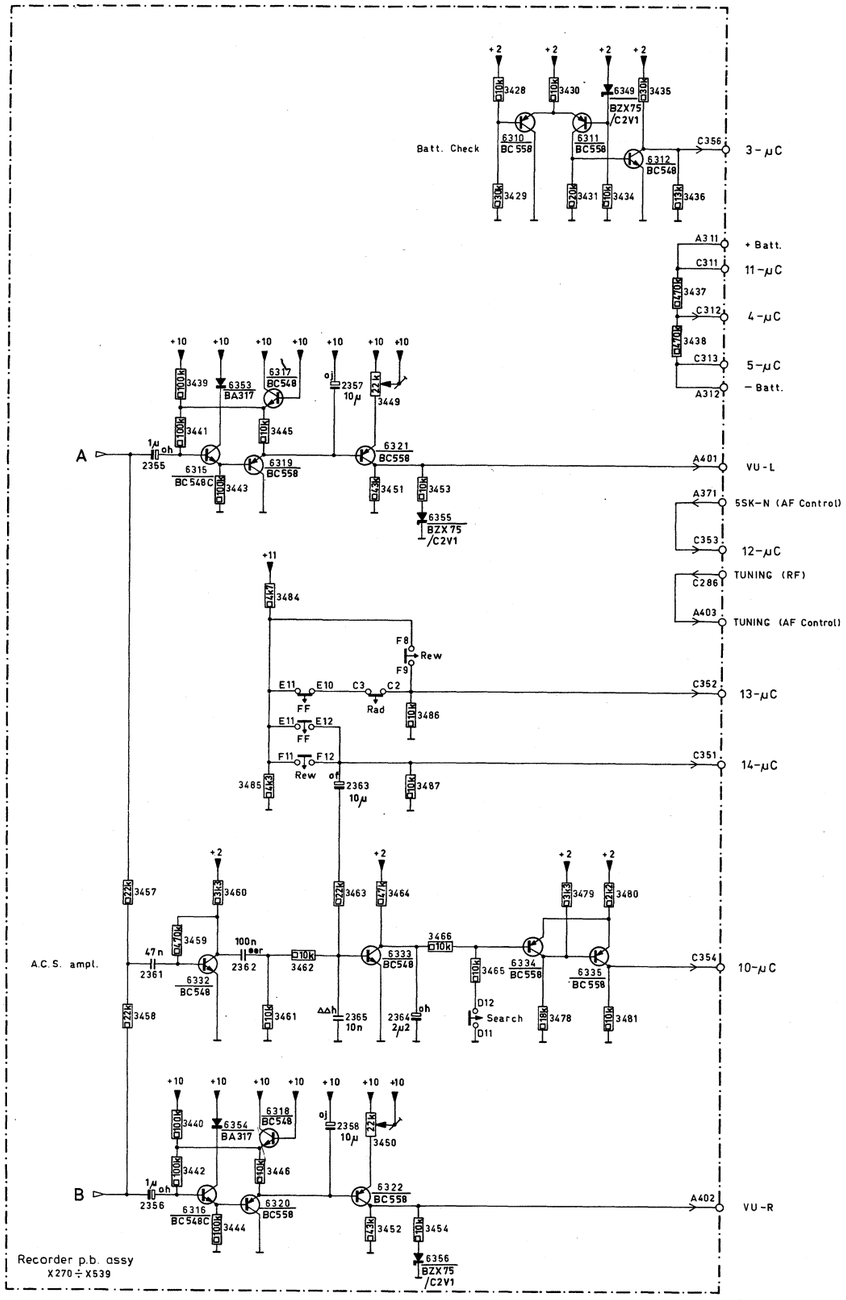


REC. UNIT

22 023 C12

CS 79 547

MISC	C	R
		3435
6349		3430
		3428
6311		
6310		
6312		
		3436
		3434
		3431
		3429
		3437
		3438
6353	2357	3449
6317		3439
		3445
		3441
6321		
6315	2355	
6319		
		3453
		3451
		3443
6355		
		3484
		3486
	2363	3487
		3485
		3480
		3479
		3464
		3463
		3460
		3457
6334		
6335	2362	3466
6333	2361	3462
6332		3465
		3481
	2364	3478
	2365	3461
		3458
		3450
6354	2358	3440
6318		
		3446
		3442
6322		
6316	2356	
6320		
		3454
		3452
		3444
6356		



0.33W ±5%

CERAMIC PLATE CAP.

POLYESTER FLATFILM CAP.

METALIZED POLYESTER FLATFILM CAP.

MINIATURE ELECTROLYTIC CAP.

*

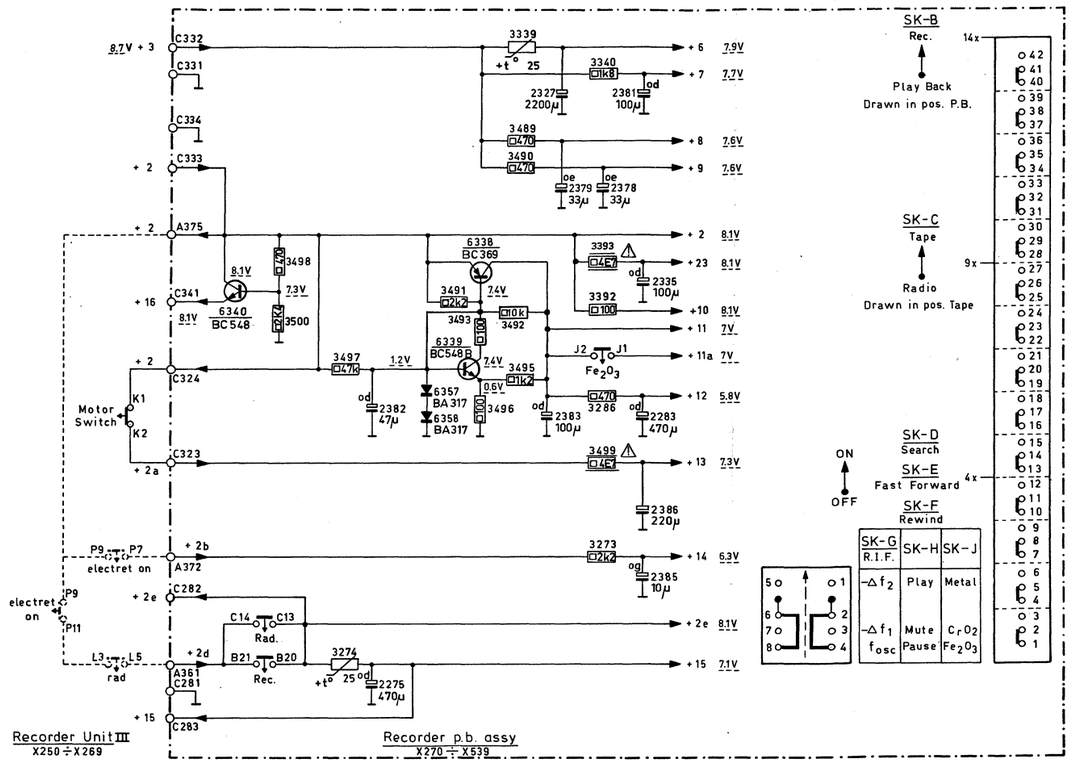
b = 4 V	g = 40V	q = 200V
c = 6.3V	h = 63V	r = 250V
d = 10V	j = 100V	s = 350V
e = 16V	m = 150V	u = 400V
f = 25V		w = 630V
		x = 1000V
		y = 1600V

RECORDER UNIT II
X 250 ÷ X 269

22 188 D12

CIRCUIT DIAGRAM

MISC	6340	6358 6357 6339 6338
C	2275.2382	2327.2383.2379.2378.2385.2386.2283.2335.2381
R	3500 3498 3497.3274	3491.3493÷3496.3339.3490.3489.3273.3499.3393.3286.3340.3392



+ 6	7.9V	+ 14	6.3V	
+ 7	7.7V	+ 2e	8.1V	
+ 8	7.6V	+ 15	7.1V	
+ 9	7.6V			
+ 2	8.1V			
+ 23	8.1V			
+ 10	8.1V			
+ 11	7V			
+ 11a	7V			
+ 12	5.8V			
+ 13	7.3V			

0.33W ±5%

CERAMIC PLATE CAP.

POLYESTER FLATFILM CAP.

METALIZED POLYESTER FLATFILM CAP.

MINIATURE ELECTROLYTIC CAP.

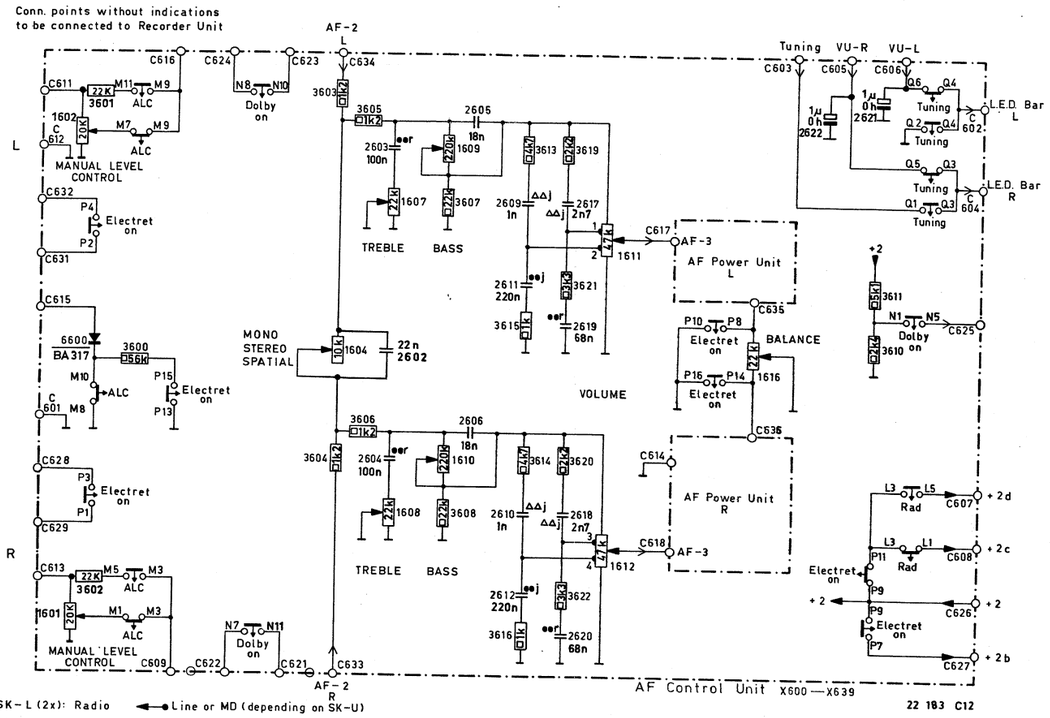
*

b = 4 V	g = 40V	q = 200V
c = 6.3V	h = 63V	r = 250V
d = 10V	j = 100V	s = 350V
e = 16V	m = 150V	u = 400V
f = 25V		w = 630V
		x = 1000V
		y = 1600V

22 184 C12

CS 79 548

MISC	6600					
C	2602 2603 ÷ 2606	2609 ÷ 2612, 2617 ÷ 2620		2622	2621	
R	1601, 1602, 3600, 3601, 3602	1604, 3603 ÷ 3608, 1607 ÷ 1610, 3613 ÷ 3616, 3619 ÷ 3622, 1612, 1611	1616		3610, 3611	



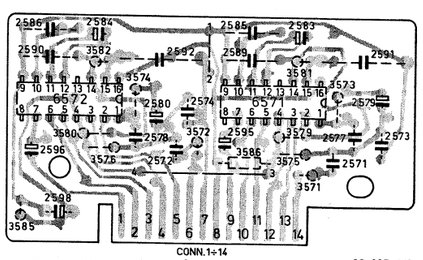
SK-L (2x): Radio ◄—● Line or MD (depending on SK-U)
SK-M (4x): Manual ●—► A.L.C. SK-P: (6x) : Electret on ◄—● off
SK-N (4x): Dolby off ●—► on SK-Q: (2x) : Tuning ◄—● VU

0.33W ±5%
CERAMIC PLATE CAP.
POLYESTER FLATFILM CAP.
METALIZED POLYESTER FLATFILM CAP.
MINIATURE ELECTROLYTIC CAP.

*

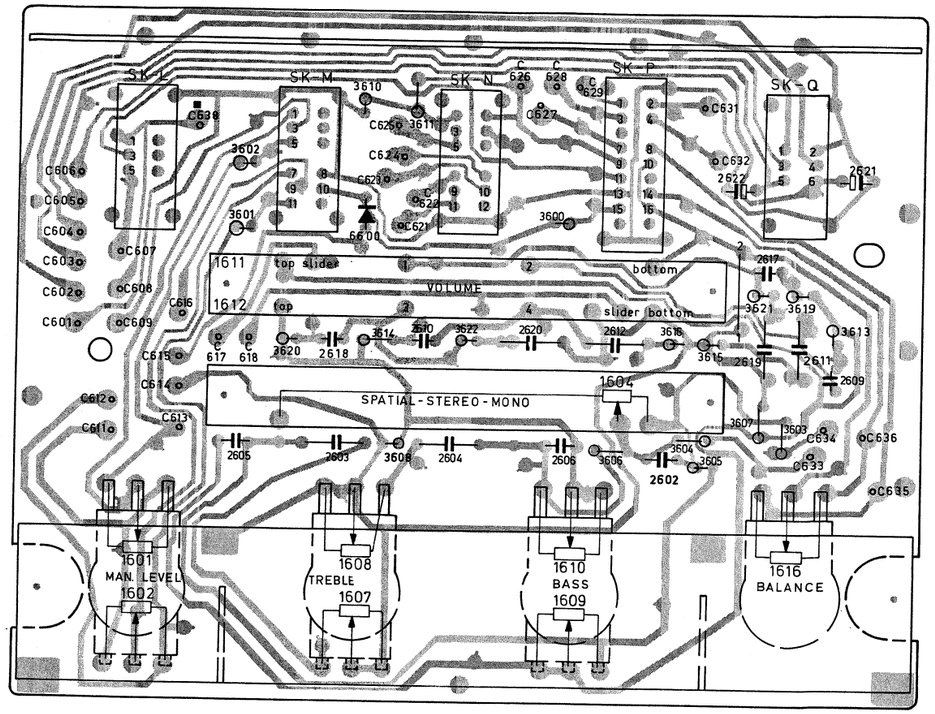
b = 4 V	g = 40 V	q = 200 V
c = 6.3 V	h = 63 V	r = 250 V
d = 10 V	j = 100 V	s = 350 V
e = 16 V	m = 150 V	u = 400 V
f = 25 V		w = 630 V
		x = 1000 V
		y = 1600 V

MISC	6572				6571		
C	2590.2586	2584	2580.2592.2574		2589.2585	2583	2591.2579
C	2596.2598		2578	2572	2595		2571.2577.2573
R		3582	3574		3581		3573
R	3585	3580.3576		3572	3586.3579.3575.3571		



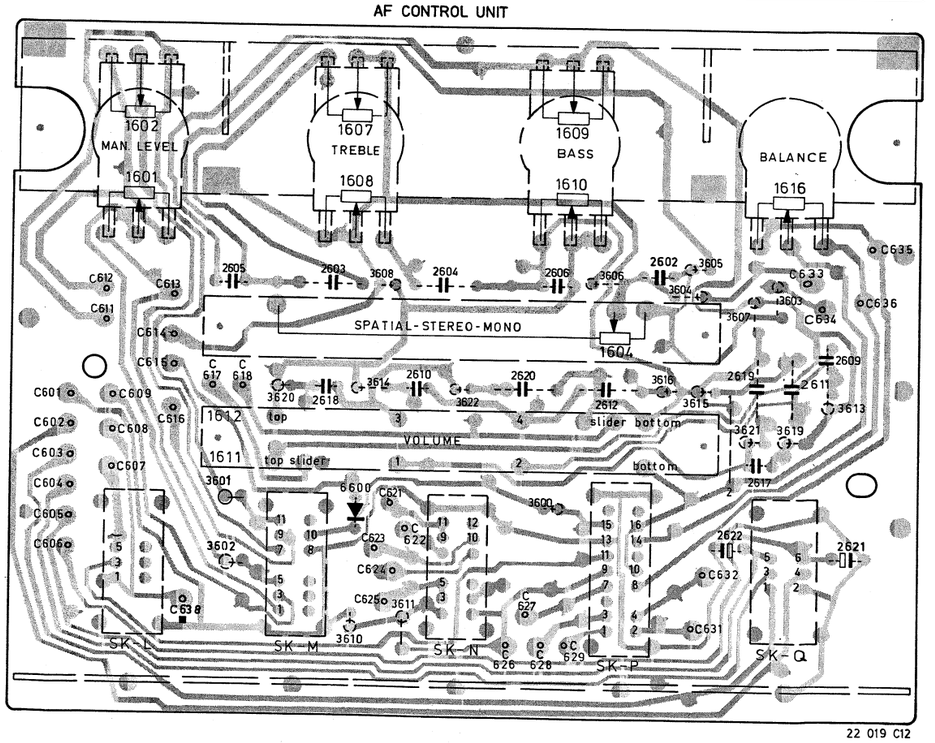
CONN 1÷4
1 0V
2 4.0V
3 3.2V
4 4.5V
5 4.0V
6 0V (4.5V)
7 ⊥
8 7.9V
9 0V
10 4.0V
11 3.2V
12 4.5V
13 4.0V
14 0V (4.5V)

22 027 A12



MISC	1601.1602	1611.1612	1608.1607.6600		1610.1609	1604	1616	
C		2605	2618.2603	2610.2604	2620.2606	2612	2602	2617.2619.2611.2609 2621 2622
R	3601.3602	3620	3610.3608.3608	3611 3622	3600	3606.3616.3604.3615.3605.3607.3621.3603.3619.3613		

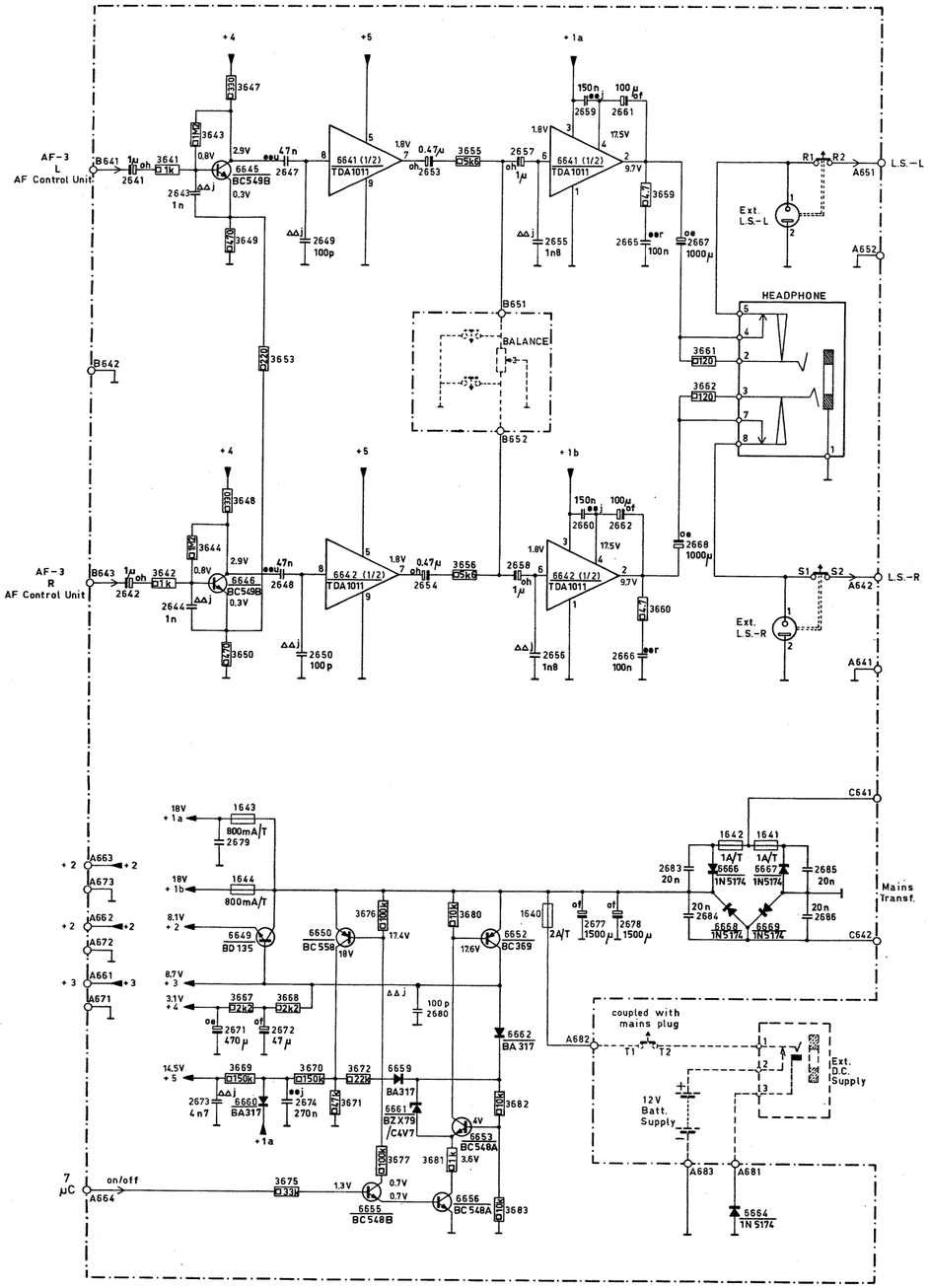
AF CONTROL UNIT



22 019 C12

CS 79 549

MISC	C	R
	2659	3647
	2661	
		3643
	2657	
6641	2653	3655
6645	2647	3641
	2641	
	2643	3659
	2667	
	2665	3649
	2655	
	2649	
		3661
		3653
		3662
	2662	3648
	2660	
	2668	
		3644
	2658	
6642	2654	3656
6646	2648	3642
	2642	
	2644	3660
	2666	
	2656	3650
	2650	
		3643
		3641
		3639
		3649
		3668
	2680	3667
	2672	
6662	2671	
		3672
		3670
6659	2674	3669
6660	2673	3682
6661		3671
6653		
		3681
		3677
		3675
6655		3683
6656		
6664		



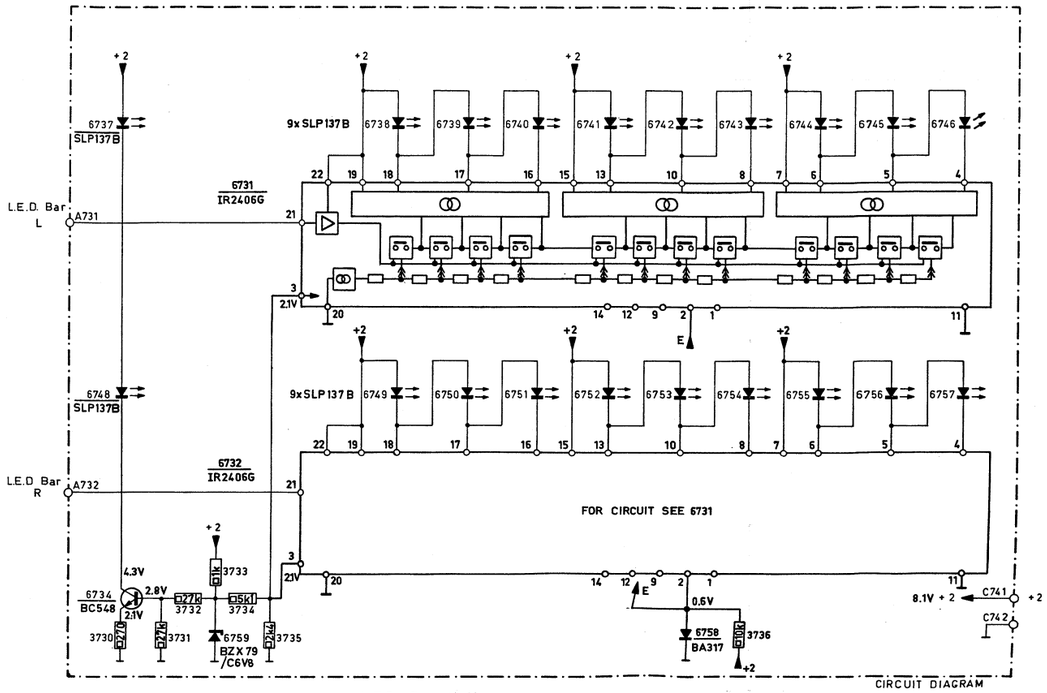
0.33W ±5% — CERAMIC PLATE CAP. — POLYESTER FLATFILM CAP. — METALIZED POLYESTER FLATFILM CAP. — MINIATURE ELECTROLYTIC CAP.

*
b = 4V g = 40V q = 200V
c = 6.3V h = 63V r = 250V
d = 10V j = 100V s = 350V
e = 16V m = 150V u = 400V
f = 25V w = 630V
x = 1000V
y = 1600V

AF POWER UNIT
X 640 ÷ X 689

22 189 D12

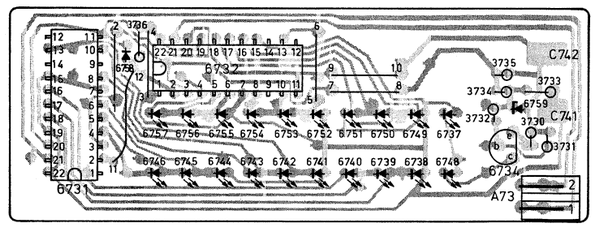
MISC.	6737	6748	6734	6759	6749÷6751	6738÷6740	6732-6731	6752÷6754	6741÷6743	6758	6755÷6757,	6744÷6746
R		3730÷3735							3736			



0.33W ±5%

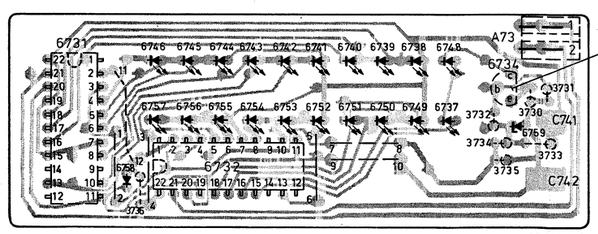
L.E.D. Bar Unit
X730 ÷ X759

CIRCUIT DIAGRAM
22 186 C12



L.E.D. BAR-UNIT

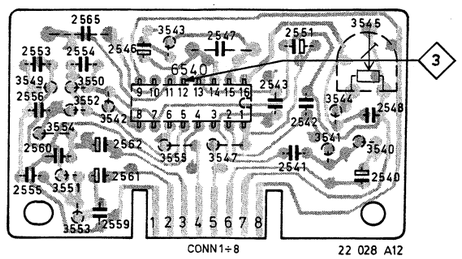
MISC	6731	6758	6757	6756	6732	6755	6754	6753	6752	6751	6750	6749	6737	6759
MISC		6746	6745	6744	6743	6742	6741	6740	6739	6738	6748			6734
R		3736												3730···3735



22 022 B12

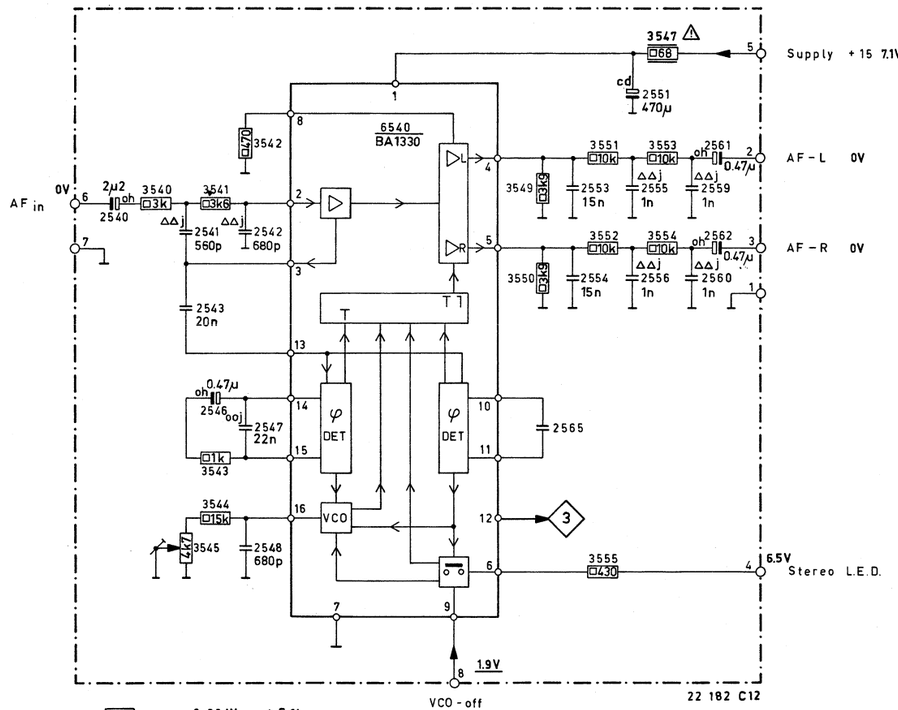
MISC	6540
C	2553···2556.2565.2559···2562.2546 2547.2541···2543.2551.2540.2548
R	3549···3554.3542 3543.3555.3547 3541.3544.3540.3545

CONN 1 ÷ 8
1 0V
2 0V
3 0V
4 6.5V
5 7.1V
6 0V
7 0V
8 1.9V



STEREO DECODER

MISC	6540		
C	2540	2541÷2543, 2546÷2548	2565, 2553÷2556, 2551 2559÷2561
R		3540 ÷3545	3549 ÷3555 3547

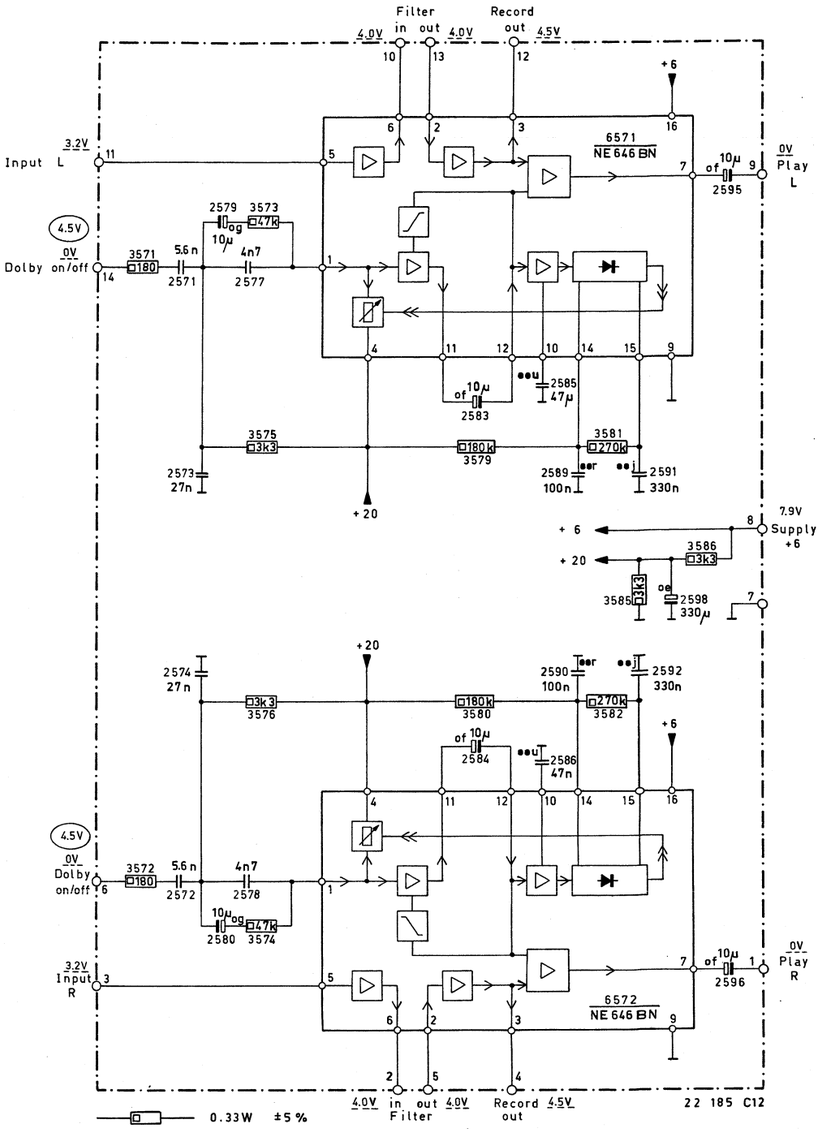


Stereo Decoder Unit
X540 — X569

0.33 W ±5 %
CERAMIC PLATE CAP.
POLYESTER FLATFILM CAP.
METALIZED POLYESTER FLATFILM CAP.
MINIATURE ELECTROLYTIC CAP.

*
b = 4 V
c = 6.3 V
d = 10 V
e = 16 V
f = 25 V
g = 40 V
h = 63 V
j = 100 V
m = 150 V
q = 200 V
r = 250 V
s = 350 V
u = 400 V
w = 630 V
x = 1000 V
y = 1600 V

MISC	C	R
6571	2595	
	2579	3573
	2577	
	2571	3571
	2585	
	2583	
		3581
		3579
	2591	3575
	2589	
	2573	
		3586
		3585
	2598	
	2592	
	2590	
	2574	3582
		3580
		3576
	2584	
	2586	
	2578	3572
	2572	
	2580	3574
	2596	
6572		

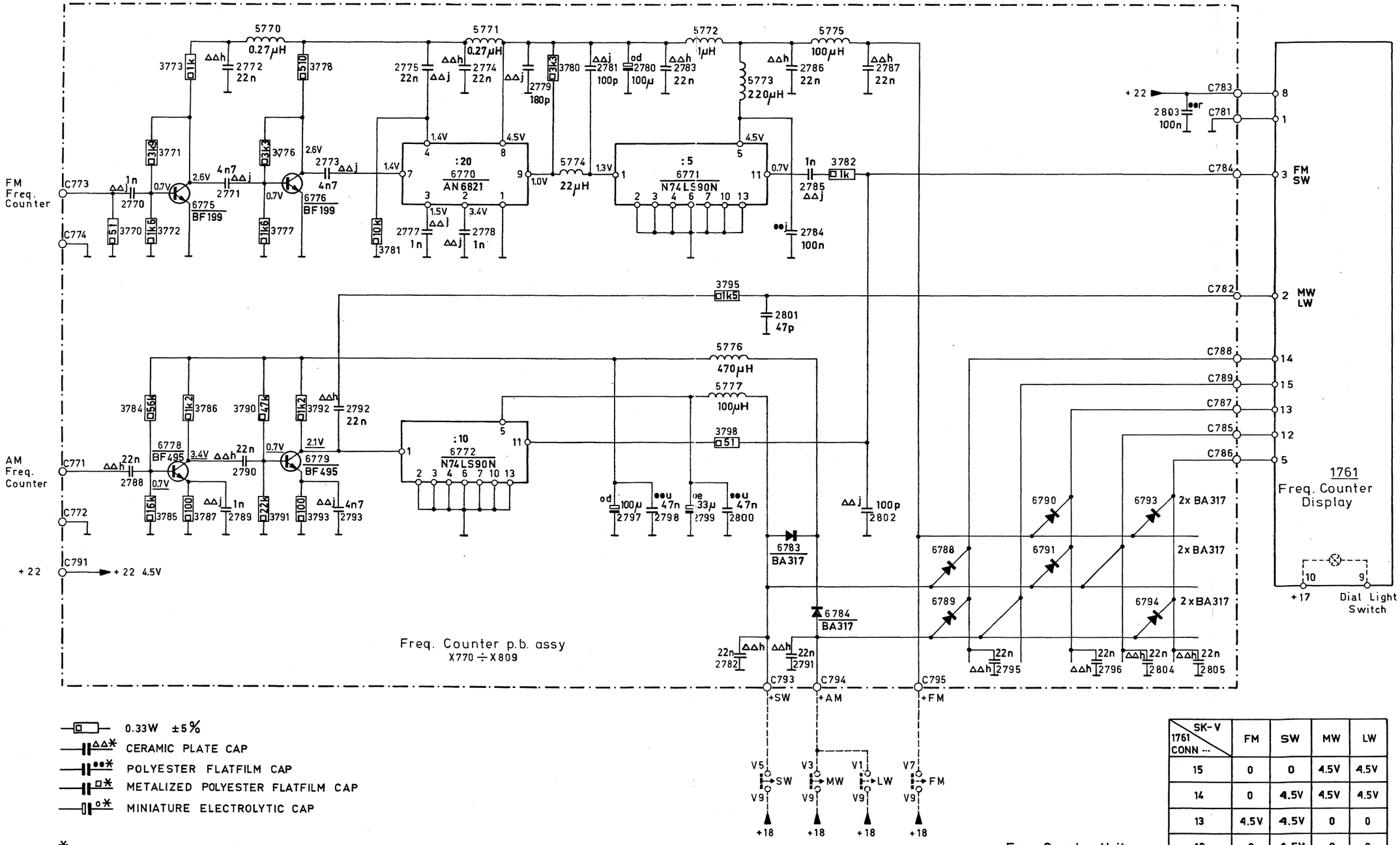


0.33W ±5 %
CERAMIC PLATE CAP.
POLYESTER FLATFILM CAP.
METALIZED POLYESTER FLATFILM CAP.
MINIATURE ELECTROLYTIC CAP.

DOLBY – UNIT

*
b = 4 V
c = 6.3V
d = 10 V
e = 16 V
f = 25 V
g = 40 V
h = 63 V
j = 100V
m = 150V
q = 200V
r = 250V
s = 350V
u = 400V
w = 630V
x = 1000V
y = 1600V

MISC	6778 6775	5770	6779.6776	6772 6770.5771	5774	6771.5772,5777,5776,5773,6783,5775,6784	6789,6788	6791,6790	6794,6793	1761
C	2788,2770,2789,2790	2771÷2773,2792,2793	2777.2775,2778,2774,2779	2797÷2800,2780÷2783	2791.2801,2784÷2786,2787,2802	2795	2796	2804	2803	2805
R	3770,3784÷3787,3770÷3773,3790÷3793,3776÷3778,3781	3780	3798 3795	3782						



0.33W ±5%
CERAMIC PLATE CAP
POLYESTER FLATFILM CAP
METALIZED POLYESTER FLATFILM CAP
MINIATURE ELECTROLYTIC CAP

*

b = 4 V	g = 40 V	q = 200V
c = 6.3 V	h = 63 V	r = 250V
d = 10V	j = 100 V	s = 350V
e = 16V	m = 150V	u = 400V
f = 25V		w = 630V
		x = 1000V
		y = 1600V

SK-V on RF UNIT

SK-V / 1761 CONN ...	FM	SW	MW	LW
15	0	0	4.5V	4.5V
14	0	4.5V	4.5V	4.5V
13	4.5V	4.5V	0	0
12	0	4.5V	0	0
5	4.5V	0	4.5V	4.5V

Freq. Counter Unit

CIRCUIT DIAGRAM

| | | |

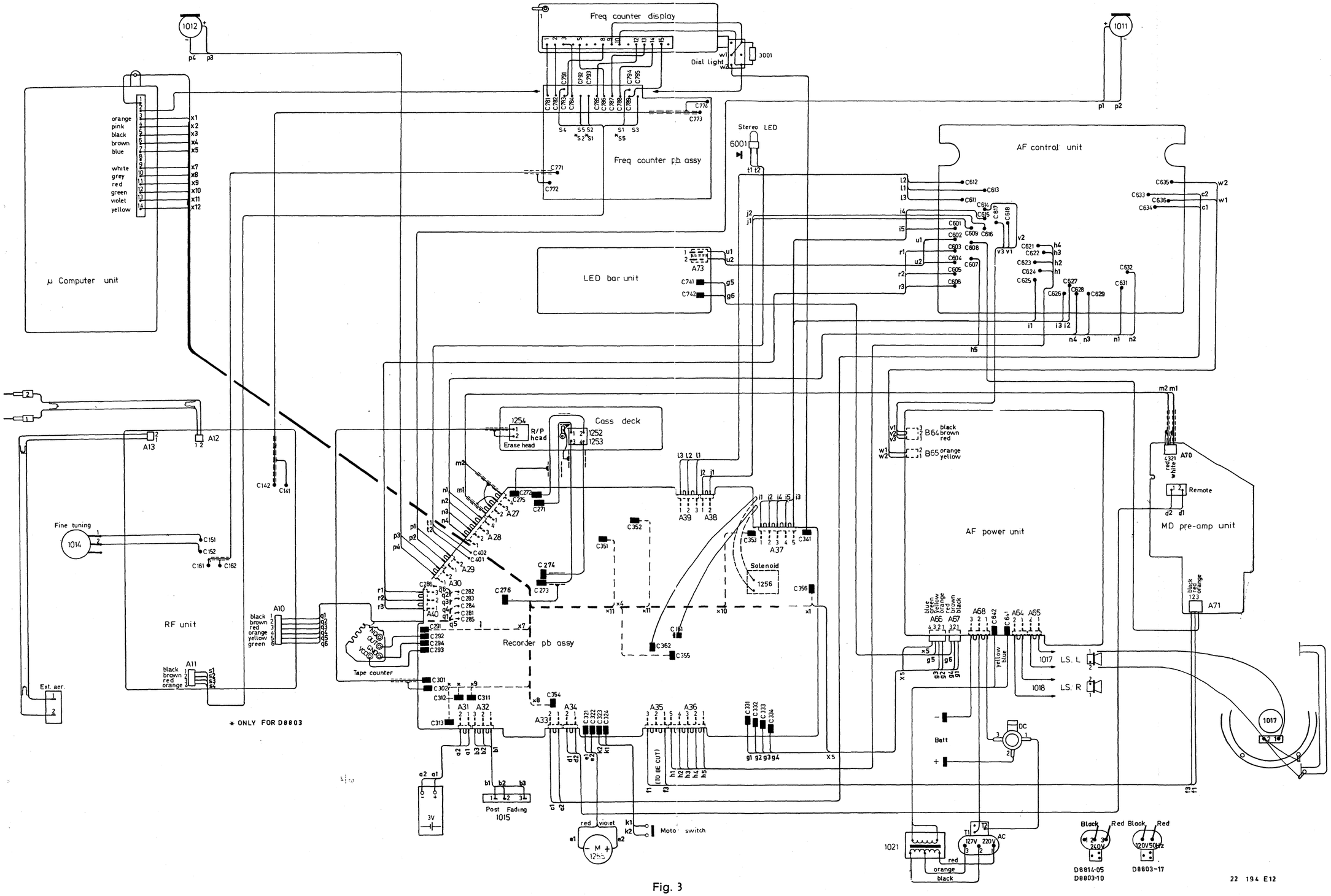
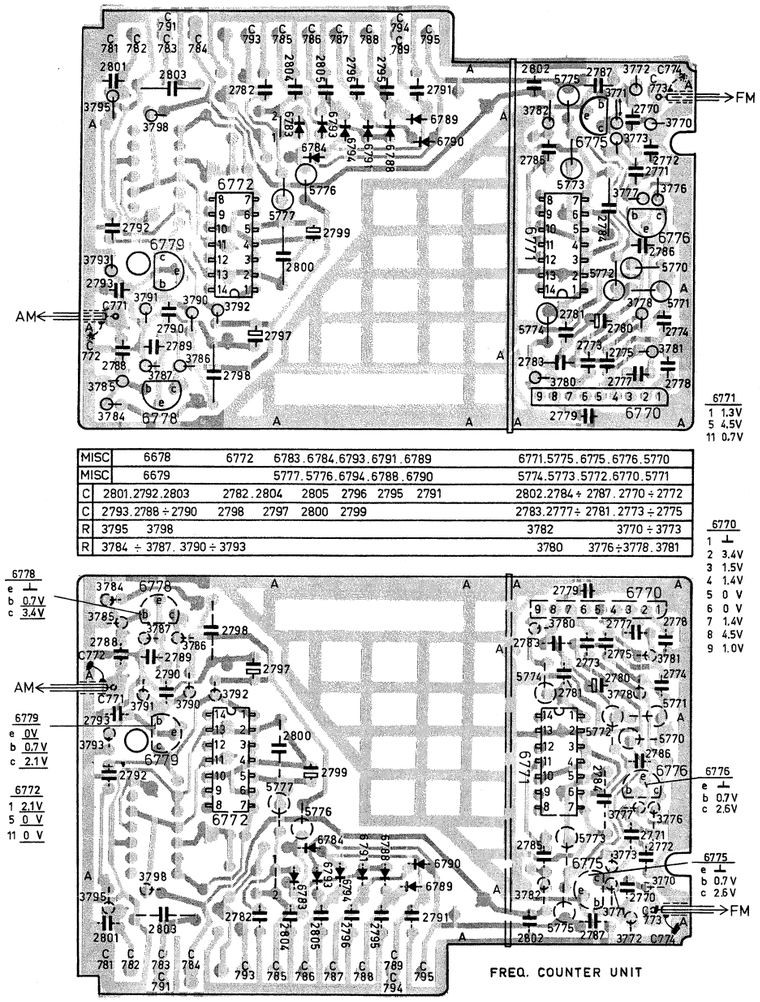

Freq counter display
Dial light
3001
Freq counter p.b assy
Stereo LED
6001
AF control unit
μ Computer unit
LED bar unit
A73
Cass deck
R/P head
Erase head
1254
1252
1253
RF unit
Recorder pb assy
Tape counter
AF power unit
MD pre-amp unit
Remote
A70
A71
Fine tuning
1014
Ext. aer.
A10
A11
A12
A13
A27
A28
A29
A30
A31
A32
A33
A34
A35
A36
A37
A38
A39
A40
Solenoid
1256
Post Fading
1015
3V
Batt
Moto switch
LS. L
LS. R
1017
1018
1021
B64 black brown red
B65 orange yellow
D8814-05
D8803-10
D8803-17
* ONLY FOR D8803
22 194 E12

Fig. 3



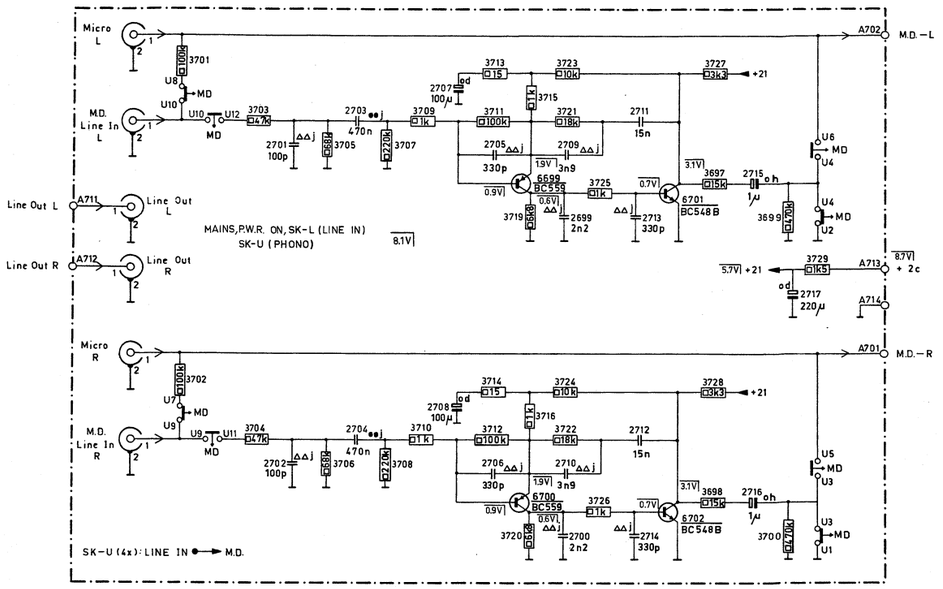
MISC	6678	6772	6783.6784.6793.6791.6789	6771.5775.6775.6776.5770
MISC	6679		5777.5776.6794.6788.6790	5774.5773.5772.6770.5771
C	2801.2792.2803	2782.2804	2805 2796 2795 2791	2802.2784÷2787.2770÷2772
C	2793.2788÷2790	2798	2797 2800 2799	2783.2777÷2781.2773÷2775
R	3795 3798		3782	3770÷3773
R	3784 ÷ 3787. 3790÷3793		3780	3776÷3778.3781

FREQ. COUNTER UNIT

A = To be soldered to the case

22 021 B12

MISC	6700-6699			6702-6701	
C	2702.2701.2704.2703		2705÷2710.2700.2699.2711÷2714	2716.2715.2717	
R	3701÷3704	3705÷3708	3709÷3716	3719÷3726	3727.3728.3697÷3700 3729



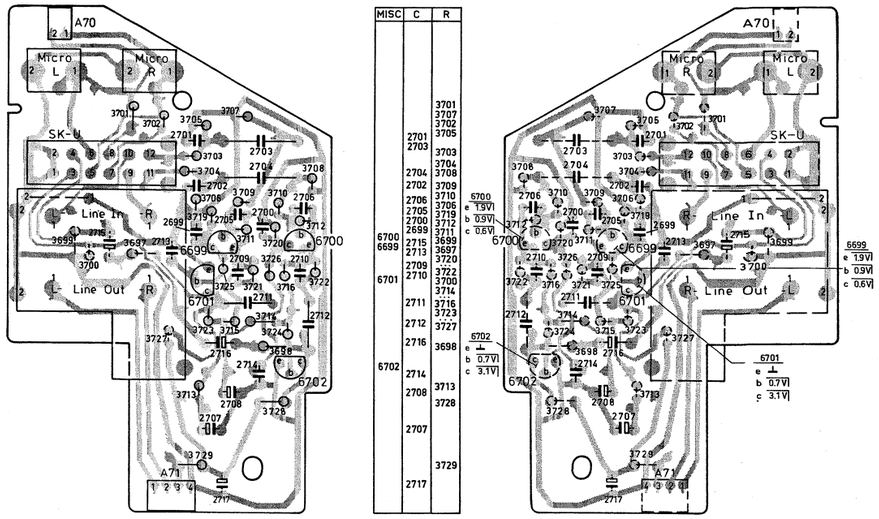
22 187 C12

▭	▭*	0.33 ±5%
‖	‖*	CERAMIC PLATE CAP.
‖	‖**	POLYESTER FLATFILM CAP.
‖	‖o*	METALIZED POLYESTER FLATFILM CAP.
‖	‖o*	MINIATURE ELECTROLYTIC CAP.

M.D. pre-amp. Unit
X 690 ÷ X 729

*

b = 4 V	g = 40V	q = 200V
c = 6.3 V	h = 63V	r = 250V
d = 10V	j = 100V	s = 350V
e = 16V	m = 150V	u = 400V
f = 25V		w = 630V
		x = 1000 V
		y = 1600V



MISC	C	R
		3701
		3707
		3702
		3705
	2701	
	2703	
		3703
		3704
	2704	3708
	2702	3709
	2706	3710
	2705	3706
	2718	3719
	2700	3712
6700	2699	3711
6699	2715	3699
	2713	3697
	2709	3720
	2710	3722
6701		3700
	2711	3714
	2712	3716
		3723
	2716	3727
	3698	
6702	2714	
	2708	3713
		3728
	2707	
		3729
	2717	

MD PRE-AMP UNIT

22 020 B12

51	4822 249 40125	69	4822 492 51227	92	4822 528 20213	109	4822 532 50993
52	4822 403 51463	71	4822 502 11454	93	4822 403 51051	111	4822 290 80345
53	4822 417 50149	72	4822 249 10087	94	4822 403 51047	112	4822 361 20206
54	4822 492 31268	73	4822 492 51229	96	4822 532 51067	113	4822 492 61989
56	4822 403 51462	76	4822 403 51067	97	4822 492 51217	114	4822 325 60038
57	4822 492 31264	77	4822 492 62134	98	4822 532 51055	117	4822 358 30223
58	4822 520 40134	78	4822 403 51068	99	4822 520 10423	118	4822 520 30296
59	4822 403 10149	79	4822 492 62035	100	4822 522 31263	121	4822 403 30292
61	4822 492 51228	80	4822 403 51048	101	4822 403 51069	122	4822 492 40525
62	4822 403 30284	81	4822 532 50692	102	4822 532 51054	123	4822 492 62396
63	4822 403 30283	82	4822 528 70291	103	4822 522 31272	124	4822 358 30148
64	4822 403 30282	83	4822 522 31212	104	4822 532 51054	1256	4822 281 60135
66	4822 403 10148	88	4822 492 51137	106	4822 532 50262		
67	4822 462 71108	89	4822 532 51061	107	4822 522 31261		
68	4822 403 51071	91	4822 403 51049	108	4822 520 10394		

401	4822 460 20306	423	4822 403 51464	450	4822 492 62355	471	4822 290 80365
402	4822 460 20305	424	4822 403 51466	451	4822 403 51468	472	4822 492 62356
403/..	4822 454 10919	426	4822 498 50116	452	4822 404 10545	473	4822 492 50824
403/18	4822 460 20302	427	4822 443 60796	453	4822 404 10539	474/..	4822 321 10105
404	4822 462 71215	428	4822 492 40905	454	4822 404 10538	474/05	4822 321 10235
406	4822 459 20225	429	4822 462 70659	455	4822 492 40619		
407	4822 492 31113	431	4822 413 30966	456	4822 528 10407		
408	4822 454 10921	432	4822 462 71219	457	4822 528 80667		
409	4822 410 22497	433	4822 413 30963	458	4822 492 62353		
411	4822 404 10537	434	4822 462 71217	459	4822 492 51181		
412	4822 462 71218	436	4822 410 22523	460	4822 535 90892		
413	4822 404 10536	437	4822 462 71216	461	4822 535 91192		
414	4822 413 30965	438	4822 410 22522	462	4822 290 80352		
416	4822 413 70147	439	4822 403 51467	463	4822 492 51258		
417	5322 492 60964	440	4822 404 10346	464	4822 303 10248		
418	4822 492 62354	441	4822 410 90049	465	4822 421 40095		
419	4822 423 40566	442	4822 492 40726	466	4822 459 50189		
420	4822 535 70528	444	4822 413 30967	467	4822 467 71107		
421	4822 403 51465	447	4822 413 30964	468	4822 423 40567		
422	4822 492 40904	449	4822 256 30142	469	4822 423 40568		

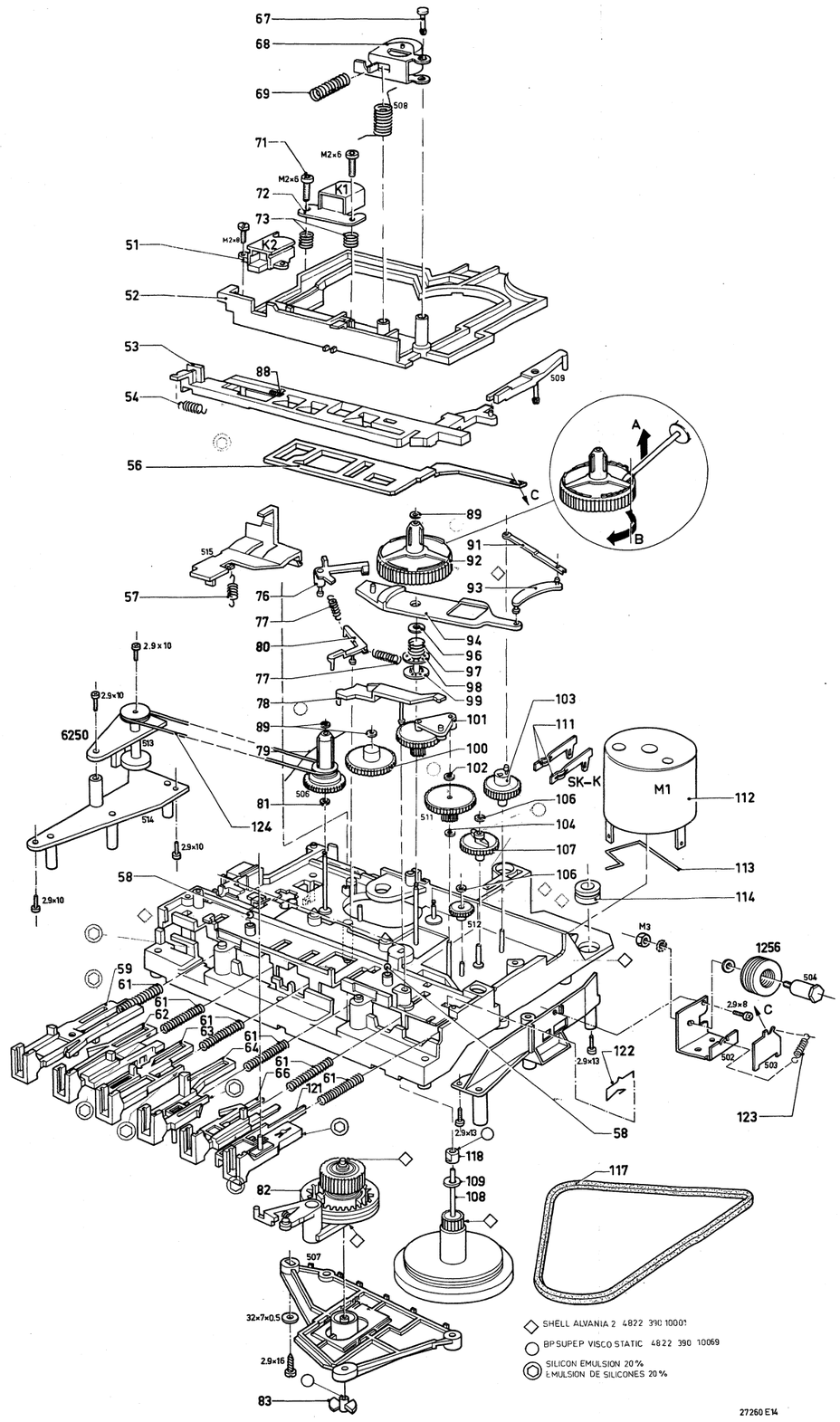

SHELL ALVANIA 2 4822 390 10001
BP SUPEP VISCO STATIC 4822 390 10069
SILICON EMULSION 20%
EMULSION DE SILICONES 20%
27260 E14

Fig. 4

— Die Lehre ist so weit auf die Tonachse zu schieben, dass sie sich in der Verlängerung der Löschkopfbandführungen befindet.
— Der A/W-Kopf ist so einzustellen, dass die Lehre genau zwischen die Bandführungen der beiden Köpfe schiebt.

Aufwickelfriktion 92 (VL)

Die Friktionskraft kann mit der Friktionsmesscassette 4822 395 30054 (811/CTM) in der Start-Stellung gemessen werden.
Der Messwert soll betragen:
— Aufwickelseite 40 ... 60 g.cm. Zulässige Schwankung innerhalb dieser Werte 10 g.cm.
— Abwickelseite 4 ... 8 g.cm.
— Die Friktionskraft wird durch die Rampen und Blattfedern bestimmt, Abb. 4a und b.
Die Kraft ist durch Verschiebung der Blattfeder über einige Nocken einstellbar.

Kontrolle des Bandlaufs und der Tonwelleneinstellung
— Gerät in Stellung Wiedergabe, mit der Spiegelcassette.
— Falls das Band bei der Tonwelle nach oben oder nach unten geht, muss die Tonwelle mit B auf dem Schwungkaxiallager (Bild 1) senkrecht eingestellt werden.
— Das Band muss gerade und genau fluchtend zwischen den Bandführungen und an der Tonwelle entlang laufen.
— Geringe Abweichungen sind hierbei zulässig, weil dies bei normalen cassetten keine nachteiligen Folgen hat.

Einstellung des Schwungradspiels
— Das Schwungradspiel muss fühlbar sein, darf aber nicht mehr als 0.3 mm betragen. Einstellen mit A (Bild 1).

ELEKTRISCHE MESSUNGEN UND EINSTELLUNGEN (siehe Bild 7)

Anmerkungen:
— Vor jeder Messung oder Einstellung mit laufendem Band sind die Köpfe und Bandführungen zu entmagnetisieren und zu reinigen.
— Bei den Messungen und Einstellungen ist von Messungen am linken Kanal ausgegangen. Die Anschlusspunkte und Abgleichorgane für den rechten Kanal sind eingeklammert.
— Die Spannungen sind gegen Masse gemessen.

Erforderliche Messgeräte und Testcassetten

— NF-Generator
— Wechselspannungs-Millivoltmeter
— Gleichlauf-Messgerät
— Universal-Testcassette SBC126Cr 4822 397 30038

Anmerkungen (siehe Bild 7)
*a Höchstzulässige Geschwindigkeitsabweichung 2%. Zierplatte 408 abnehmen (siehe Bild 5). Auch kann der Jaulwert abgelesen werden, der höchstens 0.3% betragen darf.

*b Vormagnetisierung ausschalten durch dass Basis von 6297 an Masse zu legen.

*c Bei weniger hoher Genauigkeit lässt sich auch eine Chromium-Cassette guter Qualität verwenden.

*d Das mV-Meter muss 580 mV anzeigen. Ist das nicht der Fall, dann mit R3363 (R3364) das NF-Signal (Vormagnetisierung ausgeschaltet) um soviel dB niedriger oder höher einstellen als die Meteranzeige zu hoch oder zu niedrig war.

*e Vormagnetisiering einschalten. Eine Aufzeichnung machen und diese wiedergeben.

*f Zierplatte 403 abnehmen (siehe Bild 5).

*g — Falsnötig Messung wiederholen.
— Beim Einstellen des einen Kanals kann der andere ein wenig beeinflusst werden.
— Bei einer richtigen Einstellung verläuft der Frequenzgang wie in Abb. 6, Kurve b, Verzerrung ⩽ 3%.
— Bei einer zu geringen Vormagnetisierung wird die Verzerrung zu gross. Der Frequenzgang sieht dann aus wie in Abb. 6, Kurve a, dargestellt.
— Bei einer zu grossen Vormagnetisierung werden die höhen abgeschwächt, siehe die Kennlinie in Abb. 6, Kurve c.

*h Eingangsspannung 29 mV.

(I) SMONTAGGIO

Mobile (Vedere Fig. 5)

Togliere il coperchio batteria 469/469, svitare le 7 viti e togliere il coperchio posteriore 465 (fare attenzione al cablaggio).

Smontaggio del circuito stampato (PCB-A)
— Tirare le manopole 414, 444, 447.
— Togliere le 3 viti per liberare il PCB-A e il telaio 567 deve essere tolto dal mobile.

Smontaggio del circuito stampato (PCB-C)
— Togliere le viti (S) 3 x 10.
— Il PCB-C e il pannello 571 può ora essere tolto dal mobile (fare attenzione al cablaggio).

Smontaggio del circuito stampato (PCB-B) e dell 'unità' trasporto nastro
— Prima togliere l'unità R (ci sono 3 viti).
— Successivamente togliere le 3 viti a testa svasata.
— PCB-B (+ unità trasporto nastro) può ora essere tolto dopo aver scollegato i connettori del cablaggio.

Smontaggio dell 'unità' P
— Togliere le 2 viti, premere leggermente l'unità in basso e toglierla dal mobile.

Smontaggio del circuito stampato (PCB-D)
— Togliere tutte le manopole rotanti e a slitta, le due viti (dal lato in basso) e il PCB-D dal mobile.
(Quando si rimonta, fare attenzione alle molle 558).

Smontaggio del supporto vano portacassette 419
— Aprire lo scompartimento cassetta e sollevare leggermente il perno LH del supporto compartimento cassetta 419.

Smontaggio della maniglia
— La maniglia può essere tolta dopo aver sollevato i cappucci 429.

Piastra del registratore (Fig. 4)

Smontaggio del rullo preminastro 68
Togliere la spina 67, la molla di compressione 69 e di torsione 508.

Smontaggio della staffa supporto testina 52
Togliere la molla di tensione 54.
Togliere il rullo pressore 68.
La staffa supporto testina può essere tolta spingendola leggermente indietro.
Osservazione: Fare attenzione alle due sferette pos. 58 in quanto possono perdersi.

Smontaggio dei pulsanti 59,62,63,64,66,121 Fig. 4
Togliere il rullo pressore 68.
Togliere la staffa supporto testina 52.
Togliere la staffa di chiusura 53 e la staffia di commutazione 56.
Premendo leggermente verso l'interno la linguetta di chiusura del relativi pulsanti, questi possono essere tolti dal telaio.
Quando si fa questo fare attenzione alla molla di pressione pos. 61.

Togliere il commutatore SK-K (111)
Questo commutatore è formato da 2 molla piatta separate, fissate direttamente nel-telaio.
Dissaldare i due fili di connessione e pulire il cummutatore.
Togliere l'anello 87 in modo che il disco 92 possa essere liberato.
Togliere la leva 509 e la connessione tra le staffa 91 e 93.
Staccare le linguette di chiusura della molle del commutatore 111.

REGOLAZIONE E CONTROLLI

Regolazione dell'altezza della testina di reg/rip K1, Fig. 4

— Togliere la tensione d'alimentazione.
— Togliere il coperchio 403 (vedere Fig. 5).
— Far slitarre la dima 4822 402 60245 sul capstan mentre il sullo pressore 68 è leggermente spinto indietro.
— La dima deve essere fatta slittare in modo che il suo prolungamento si trovi in linea con le guide della testina di cancellazione.
— La trestina reg/rip può ora essere regolata.
La dima deve trovarsi tral le guide delle due testine.

Frizione d'avvolgimento veloce 92

La forza della frizione deve essere regolata con la cassetta 4822 395 30054 (811/CTM) in posizione "riproduzione".
Il valore deve essere:
— Bobina di destra 40-60 grcm. E'ammessa una variazione di 10 grcm.
— Bobina di sinistra 4-8 grcm.
— La forza della frizione è regolabile spostando il gancio del la molla piatta in un'altra tacca.
Fig. 4a e b.

Controllo del bloccaggio e regolazione del cabestan.
— Piastra di registrazione in posizione "riproduzione" con la cassetta a specchio inserita.
— Quando il nastro sul capstan si muove o verso l'alto o verso il basso, regolare il capstan affinchè sia perpendicolare per mezzo della B sulla bussola pel perno del volano B (Fig. 1).
— Il nastro deve scorrere diritto e piatto tra le guide nastro il capstan.
Piccole variazioni di questo tipo sono ammesse perchè non hanno alcun effetto su cassette normali.

Regolazione del gioco del volano
— Il gioco deve essere visibile ma non deve superare i 0,3 mm.
Regolare ruotando A (Fig. 1).

MISURE E REGOLAZIONI ELETTRICHE NOTA (vedere Fig. 7)

Le seguenti misure e regolazioni sono riferite al canale sinistro.
I punti di misura e di regolalione per il canale destro sono riportati tra parentesi.
Prima di ogni misura o regolazione con in funzione la cassetta bisogna smagnetizzare le testina e le guide del nastro.
Si raccomanda di pulire le testine prima di ogni misura o regolazione che preveda l'uso della cassetta.

Cassetta campione e strumenti richiesti:

— Generatore bassa frequenza
— Millivoltmetro
— Misuratore di Wow e Flutter
— Cassette campione universali SBC126Cr 4822 397 30038.

NOTA (vedere Fig. 7)

*a Massima deviazione tollerata 2%. Togliere il coperchio 408 (vedere Fig. 5). Può essere letto anche il Wow. Questo può essere come massimo 0,3%.

*b Togliere la premagnetizzazione cortocircuitando la base e l'emittore di 6297.

*c Si il controllo non deve essere molto accurato, si può utilizarre une cassetta al cromo di alta qualita.

*d Se ciò non è aumentare o ridurre 580 mV il segnale AF (bias disinserito), in funzione della indicazione, in dB troppo bassa o troppo alta, per mezzo di R3363, (R3364).

*e Togliere il corto-circuito di 6297. Fare una registrazione e riprodurla.

*f Togliere il coperchio 403 (vedere Fig. 5).

*g — Se necessario regolare ancora una volta.
— Quando viene regolata un canale, questo può influire sulla regolazione dell'altro.
— Se la regolazione e corretta la curva della risposta in frequenza sarà simile alla curva b della Fig. 6. Distorsione aumenterà.
— Se la premagnetizzazione è trppo bassa, la distorsione aumentera.
La curva della risposta in frequenza sarà quella della curva a della Fig. 6.
— Se la premagnetizzazione è trppo alta ne risulterà un'eccessiva attenuazione delle frequenza alta, vedere curva c della Fig. 6.

*h Tensione in ingresso 29 mV.

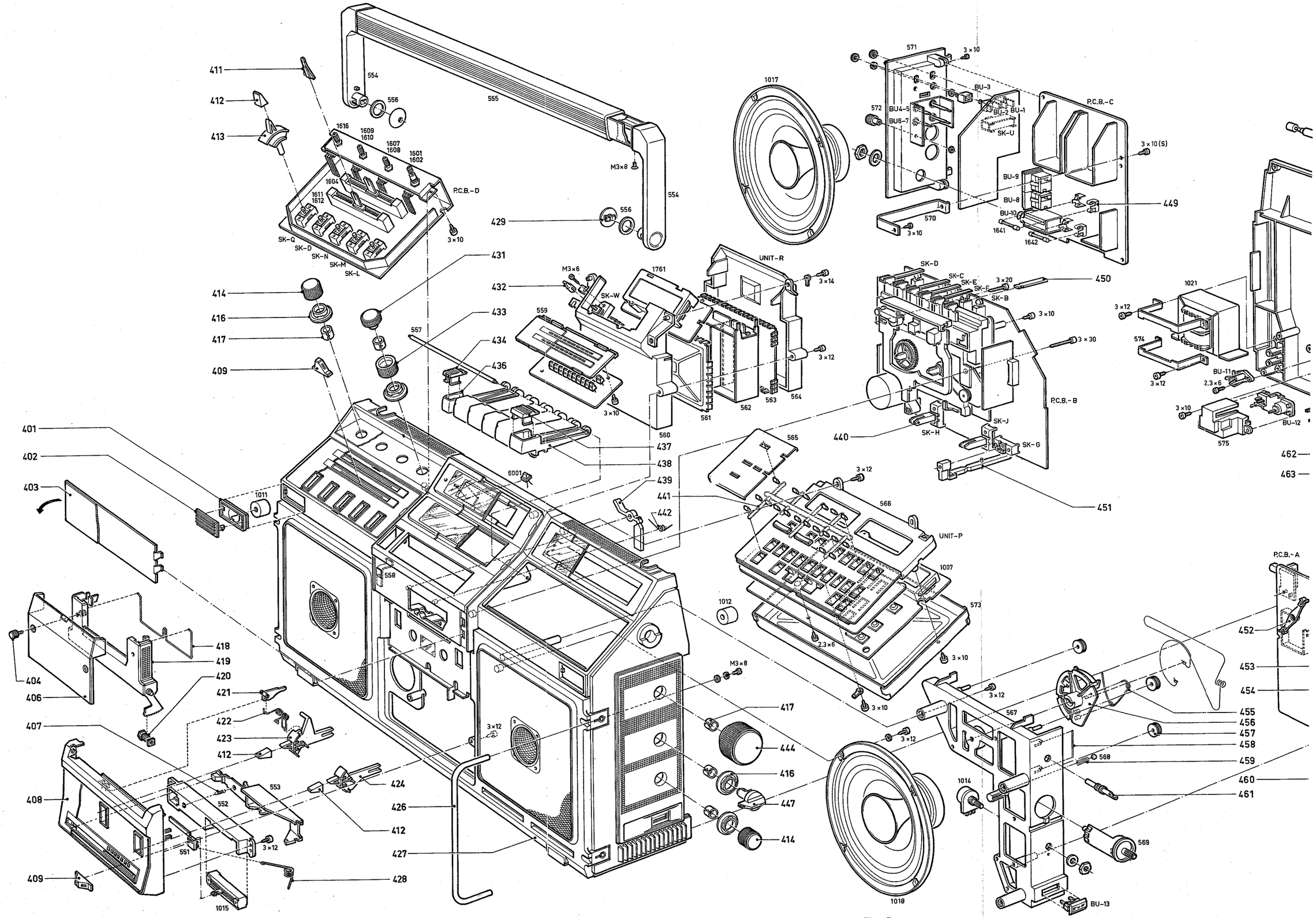

401
402
403
404
406
407
408
409
411
412
413
414
416
417
418
419
420
421
422
423
424
426
427
428
429
431
432
433
434
436
437
438
439
441
442
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
M3×8
3×10
3×12
3×14
3×20
3×30
2.3×6
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
1011
1012
1014
1015
1016
1017
1018
1021
1601
1602
1604
1607
1608
1609
1610
1611
1612
1641
1642
1761
6001
P.C.B.-A
P.C.B.-B
P.C.B.-C
P.C.B.-D
UNIT-P
UNIT-R
BU-1
BU-2
BU-3
BU4-5
BU6-7
BU-8
BU-9
BU-10
BU-11
BU-12
BU-13
SK-Q
SK-D
SK-N
SK-M
SK-L
SK-W
SK-U
SK-J
SK-H
SK-G
SK-F
SK-E
SK-C
SK-B
SUPERSCAN

Fig. 5

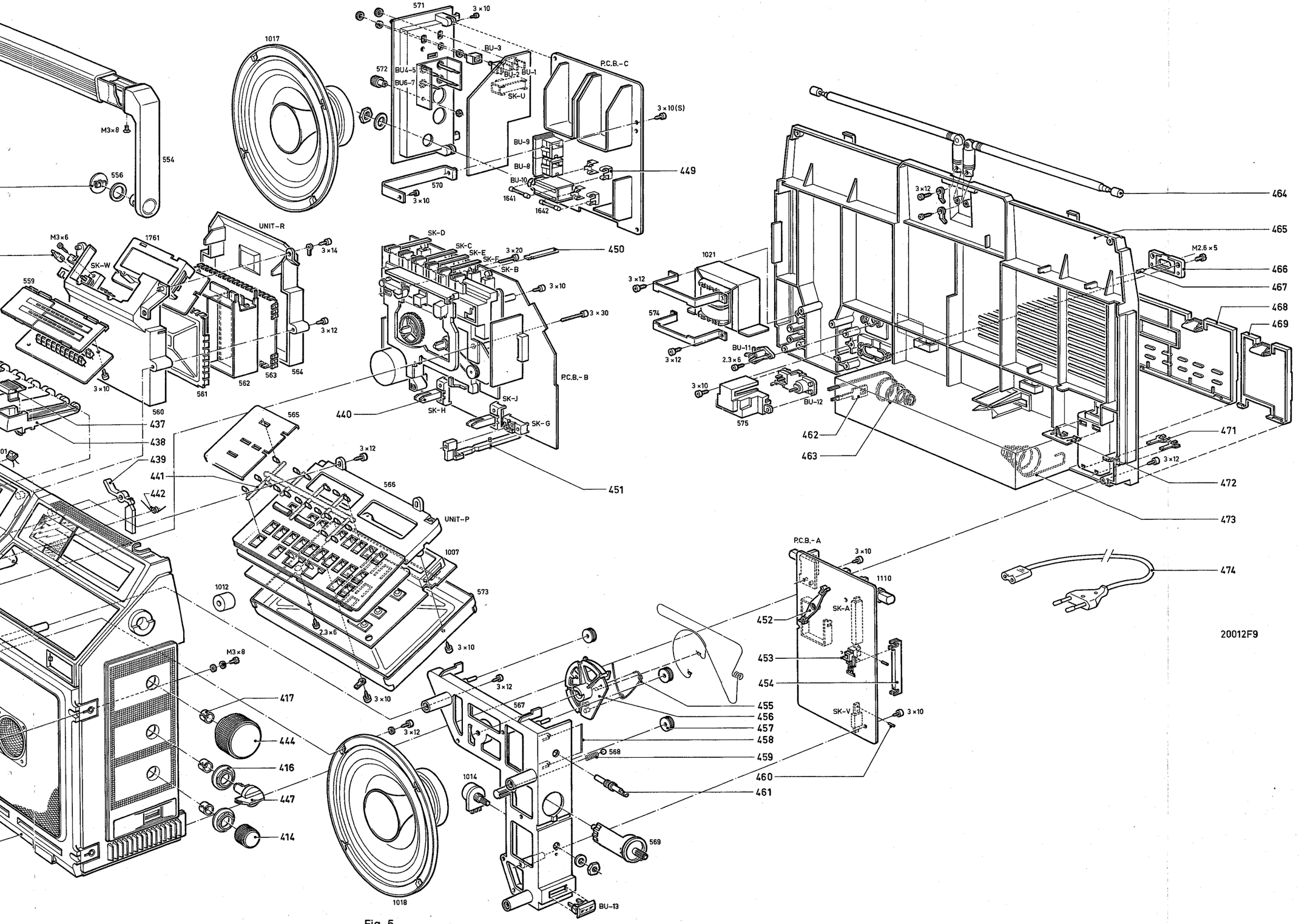


Fig. 5

CS 79 560

(GB)

1. Open jumper (A).
2. Adjust for mase, height and symmetry of band curve.
3. Adjust for max. linearity and symmetry of the "S" curve.
4. See display (24)
5. Close jumper (A).

(NL)

1. Open brug (A).
2. Regel de band kromme af op max. hoogte en symmetrie.
3. Regel de "S" kromme af op symmetrie en max. lineariteit.
4. Zie display (24)
5. Sluit brug (A).

(F)

1. Ouvirir la pontet (A).
2. Ajuster hauteur et symétrie maximum de la courbe de bande.
3. Ajuster la courbe en "S" pour un maximum de symétrie en linéarité.
4. Voir display (24)
5. Fermer le pontet (A).

(D)

1. Brücke (A) öffnen.
2. Die Band Kurve auf maximale höhe und symmetrie abgleichen.
3. Die "S" Kurve auf Symmetrie und maximale linearität abgleichen.
4. Siehe Display (24)
5. Brücke (A) schliessen.

(I)

1. Aprire il ponticello (A).
2. Regolare per pendenza massima e per simmetria della curva.
3. Regolare per pendenza massima e per simmetria delle curva ad "S".
4. Vedere display (24)
5. Chiudere il ponticello (A).

SK...					888		
AM via 33 nF	468 kHz +1 kHz	D	Min. cap.	5124			(1) Max.
				5120			
				5119			
				5115			
LW-GO 150-260 kHz	147 kHz		Max. cap.	5111			
SW-OC 5.95-15.45 MHz	5.83 MHz			5110			
MW-PO 520-1605 kHz	1635 kHz		Min. cap.	2135	4		
SW-OC 5.95-15.45 MHz	15.76 MHz			2130			
LW-GO 150-260 kHz	157 kHz +1 kHz	E		5109			(1) Max.
MW-PO 520-1605 kHz	550 kHz +1 kHz			1110			
SW-OC 5.95-15.45 MHz	6.2 MHz +1 kHz	F		5108			
MW-PO 520-1605 kHz	1500 kHz +1 kHz	E		2120			
SW-OC 5.95-15.45 MHz	14.5 MHz +1 kHz	F		1105			
FM 87.5-108 MHz	1 10.7 MHz via 5 nF Δf= ± 180 kHz (50 Hz)	G		5123		1	
				5125		2	
		H		5118		(2)	(2)
				5114			
		L		5105			
				5104			
FM 87.5-108 MHz	87 MHz		Max. cap.	5103	4		
				5101			
	109 MHz		Min. cap.	1103		5	
				1101			
	87 MHz Δf= ± 180 kHz (50 Hz) via 5 nF	F	Max. cap.	5125		(1) 3	

Repeat - Herhalen - Répéter - Wiederholen - Repitanse - Ripetere - Repetera - Gentag - Gjentagelse - Toista

Stereo decoder - Décodeur stéréo

SK...		Frequency counter	
FM 87.5-108 MHz	3545	(3)	19 kHz ± 100 kHz

"Bei notwendigem Abgleich ist das Gerät auf die gesetzlich vorgeschriebenen Eckfrequenzen abzugleichen".

-IC-
6113
6540
6571
6572
6641
6642
6731
6732
6770
6771
6772

-TS-
BF199
BF324
BF495
BC558
BC548
BC548A
BC548B
BC548C
BC549B
BC549C
BC558B
BC338
BD233
BC368/36
MJE9400
BF494D, E
BF495D

-D-
SLP237B
BZX79-B4
BA220
BB119
BA317
AA119
AA119 PA
BZX75-C2
1N5174
BZX79-B6
BZX79-B7
SLP137B

-R-
1014
1015
1601-1602
1604
1607-1608
1609-1610
1611-1612
1606
3274,3339
3317,3318
3449,3450
3347,3545
3363,3364
3393
3403,3404
3547
3659.3660

-S-
5100
5103
5108
5109
5110
5111
5112
5114÷511

SK...							
AM via 33 nF	468 kHz +1 kHz	D	Min. cap.	5124 / 5120 / 5119 / 5115			1 Max.
LW-GO 150-260 kHz	147 kHz		Max. cap.	5111	4		
SW-OC 5.95-15.45 MHz	5.83 MHz			5110			
MW-PO 520-1605 kHz	1635 kHz		Min. cap.	2135			
SW-OC 5.95-15.45 MHz	15.76 MHz			2130			
LW-GO 150-260 kHz	157 kHz +1 kHz	E		5109			1 Max.
MW-PO 520-1605 kHz	550 kHz +1 kHz			1110			
SW-OC 5.95-15.45 MHz	6.2 MHz +1 kHz	F		5108			
MW-PO 520-1605 kHz	1500 kHz +1 kHz	E		2120			
SW-OC 5.95-15.45 MHz	14.5 MHz +1 kHz	F		1105			
FM 87.5-108 MHz	1 10.7 MHz via 5 nF Δf= ± 180 kHz (50 Hz)	G		5123 / 5125		1 / 2	2
		H		5118 / 5114		2	
		L		5105 / 5104			
FM 87.5-108 MHz	87 MHz		Max. cap.	5103 / 5101	4		
	109 MHz		Min. cap.	1103 / 1101		5	
	87 MHz Δf= ± 180 kHz (50 Hz) via 5 nF	F	Max. cap.	5125		1 3	

Repeat - Herhalen - Répéter - Wiederholen - Repitanse - Ripetere - Repetera - Gentag - Gjentagelse - Toista

Stereo decoder - Décodeur stéréo

SK...		Frequency counter	
FM 87.5-108 MHz	3545	3	19 kHz ± 100 kHz

"Bei notwendigem Abgleich ist das Gerät auf die gesetzlich vorgeschriebenen Eckfrequenzen abzugleichen".

-IC-		
6113	UA78L05ACS	4822 209 80832
6540	BA1330	4822 209 80771
6571 / 6572	NE645BN	4822 209 80454
6641 / 6642	TDA1011	4822 209 80506
6731 / 6732	IR2406G	4822 209 80833
6770	AN6821	4822 209 80665
6771 / 6772	N74LS90N	5322 209 85255

-TS-		
BF199		4822 130 44154
BF324		4822 130 41448
BF495		4822 130 40947
BC558		4822 130 40941
BC548		4822 130 40938
BC548A		4822 130 40948
BC548B		4822 130 40937
BC548C		4822 130 44196
BC549B		4822 130 40936
BC549C		4822 130 44246
BC558B		4822 130 44197
BC338		4822 130 44121
BD233		4822 130 41449
BC368/369		5322 130 44593
MJE9400		4822 130 41018
BF494D, BF495C BF495D		4822 130 40949

-D-		
SLP237B		4822 130 31121
BZX79-B4V7		4822 130 34174
BA220		4822 130 34221
BB119		4822 130 31273
BA317		4822 130 30847
AA119		4822 130 31012
AA119 PAIR		4822 130 30312
BZX75-C2V1		4822 130 34049
1N5174		4822 130 31439
BZX79-B6V8		4822 130 34278
BZX79-B7V5		4822 130 30861
SLP137B		4822 130 31122

-R-		
1014		4822 101 30429
1015		4822 105 10422
1601-1602		4822 101 30431
1604		4822 105 10313
1607-1608		4822 101 30432
1609-1610		4822 101 30433
1611-1612		4822 105 10314
1606		4822 101 30434
3274,3339	PTC	5322 116 44008
3317,3318 3449,3450	22k	4822 100 10051
3347,3545	47kΩ	4822 100 10036
3363,3364	10k	4822 100 10035
3393	Safe res.	4822 111 30499
3403,3404	220k	4822 100 10088
3547	Safe res.	4822 111 30531
3659.3660	Safe res.	4822 111 30499

-S-		
5100		4822 146 30324
5103		4822 157 40165
5108		4822 156 40657
5109		4822 156 30564
5110		4822 156 40658
5111		4822 153 40008
5112		4822 157 51157
5114÷5118		4822 153 50205

-S-		
5115		4822 153 20223
5119,5120		4822 153 10292
5121,5774		4822 157 50961
5123		4822 153 50207
5124		4822 153 10293
5125		4822 153 50208
5126,5776		4822 157 51193
5271,5272		4822 156 20694
5273,5274		4822 156 20693
5277,5278		4822 156 90031
5770,5771		4822 157 51194
5772		4822 157 51195
5773		4822 157 51192
5775,5777		4822 157 50964
1110		4822 158 60447
1021/..		4822 146 20623
1021/15		4822 146 50181

-C-		
1100		4822 125 20226
2101÷2106	5 nF	4822 122 31528
2118	1.2 nF/150 V	4822 121 50439
2120	20 pF	4822 125 50045
2121	110 pF/630 V	5322 121 54058
2128	820 pF/250 V	5322 121 54072
2130,2135	10 pF	4822 125 50062
2131	22 nF/50 V	4822 121 41402
2132	390 pF/630 V	5322 121 54128
2133	340 pF/630 V	4822 121 50615
2301,2302 2141	3 nF/63 V	4822 121 50414
2148	47 nF/250 V	4822 121 40504
2168÷2686	22 nF/63 V	4822 122 30103
2281,2282	18 nF	4822 124 20836
2285,2286	33 nF/50 V	4822 121 50647
2299,2300	3.9 n/160 V	5322 121 54127
2327,2350	2200 uF/16 V	4822 124 20779
2339	20 nF/63 V	4822 121 50611
2342	6.2 nF/160 V	5322 121 54153
2343	2 nF	4822 121 50773
2553÷2712	15 nF/50 V	5322 122 34073
2571,2572	5.6 nF/63 V	4822 121 50543
2573,2574	27 nF	4822 121 50607
2577,2578	4.7 nF	4822 121 50539

-Miscellaneous-		
SK-A		4822 277 30603
SK-B		4822 277 20655
SK-C		4822 277 20661
SK-D,E,F		4822 277 20659
SK-G,H,J		4822 277 20663
SK-L,Q		4822 277 10552
SK-M		4822 277 10554
SK-N,P		4822 277 10553
SK-U		4822 277 20213
SK-V		4822 277 20658
SK-W		4822 277 10879
BU-1-2		4822 267 40402
BU-3		4822 267 50312
BU-4÷7		4822 267 40401
BU-8,9		4822 267 30271
BU-10		4822 267 50313
BU-11		4822 265 20051
BU-12		4822 267 40349
BU-13		4822 267 30208
Lamp unit 1007 unit 1761		4822 134 40389
Screw ϕ 3x30		4822 502 10692
Unit 1007		4822 214 50236
Unit 1761		4822 214 50235
1011,1012	Mic.	4822 242 10033
1017,1018	Loudsp.	4822 240 50074
1640	Fuse 2AT	4822 253 30025
1641,1642	Fuse 1AT	4822 253 30021
1643,1644	Fuse 800 MAT	4822 253 30019